



Appendix B10
Junction Systems Design



BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME

JUNCTION SYSTEMS DESIGN

DRAWING SERIES NUMBER(S)

- BCIDA-ACM-TSM_IX-0006_XX_00-DR-TR-0001
- BCIDA-ACM-TSM_KP-0006_XX_00-DR-TR-0001
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0001
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0002
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0003
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0004
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0005
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0006
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0007
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0008
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0009
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0010
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0011
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0012
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0013
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0014
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0015
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0016
- BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0017

DRAWING SERIES DESCRIPTION

- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. COVER SHEET
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. KEY PLAN
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / R835 LUCAN ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / N4 JUNCTION 3
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R136 BALLYOWEN ROAD / HERMITAGE ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. N4 JUNCTION 2
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 PALMERSTOWN BYPASS / KENNELSFORT ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. OLD LUCAN ROAD / KENNELSFORT ROAD LOWER
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 PALMERSTOWN BYPASS / THE OVAL
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CHAPELIZOD BYPASS / R112 KYLEMORE ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CHAPELIZOD BYPASS / R148 CON COLBERT ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 CON COLBERT ROAD / R839 MEMORIAL ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. CON COLBERT ROAD / R111 SOUTH CIRCULAR ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / R111 SOUTH CIRCULAR ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / HSQ
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R148 ST. JOHN'S ROAD WEST / MILITARY ROAD
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. ST. JOHN'S ROAD WEST / HEUSTON STATION
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. ST. JOHN'S ROAD WEST / VICTORIA QUAY
- LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME. JUNCTION SYSTEMS DESIGN. R112 LUCAN ROAD

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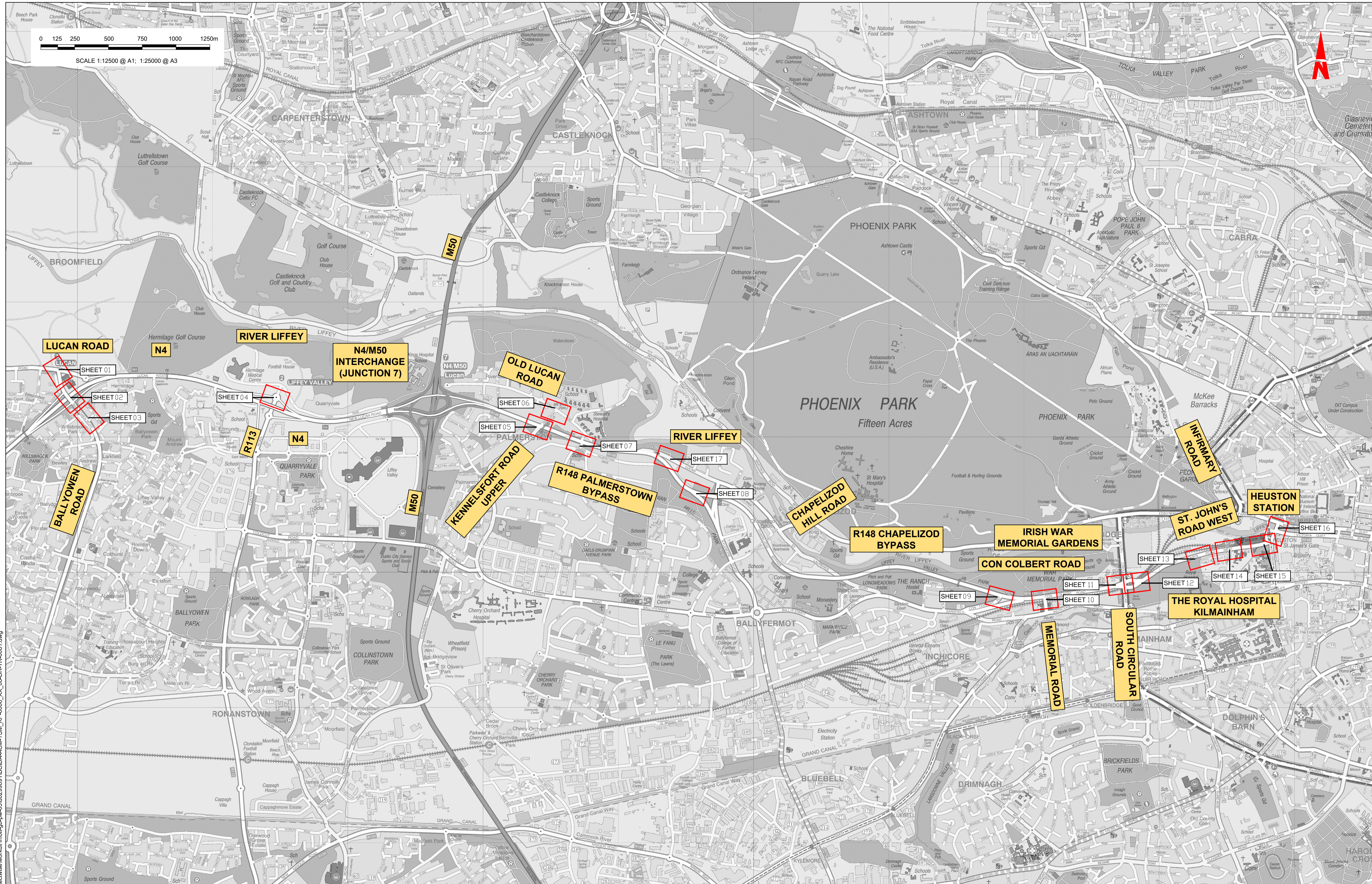


Rev	Date	Drn	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer AECOM MOTT MACDONALD		
Date 03/10/22	Scale N/A	Drawn @ A1 @ A3	Checked E.CHOI	Approved C.ACTON
Project Code BCIDA	Originator Code ACM	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN COVER SHEET			
Drawing File Name BCIDA-ACM-TSM_IX-0006_XX_00-DR-TR-0001	Sheet Number 01 of 01	Status A	Rev M01




0 125 250 500 750 1000 1250m
SCALE 1:12500 @ A1; 1:25000 @ A3



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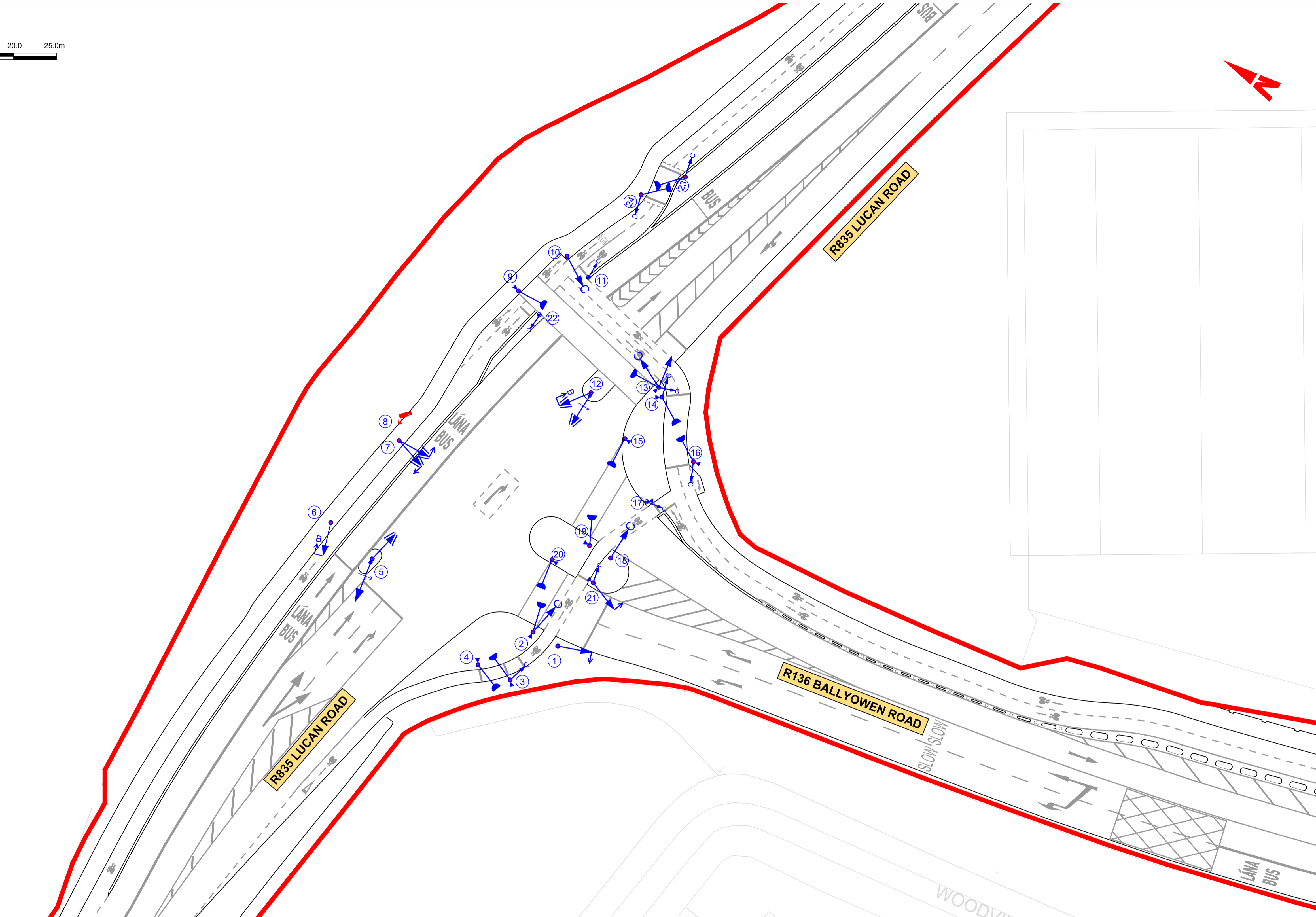
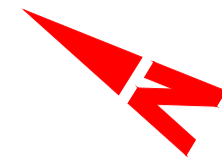
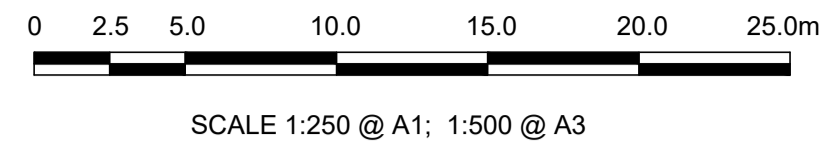
Rev	Date	Drn	Chkd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client		Engineering Designer		Programme Title	
 Údarás Náisiúnta Iompair National Transport Authority		 		BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Date	Scale	Drawn	Checked	Approved	Drawing Title
03/10/22	1:12500 @ A1 1:25000 @ A3	E.CHOI	A.T.DALE	C.ACTON	LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN KEY PLAN
Project Code	Originator Code	QMS Code		Drawing File Name	Sheet Number
BCIDA	ACM			BCIDA-ACM-TSM_KP-0006_XX_00-DR-TR-0001	01 of 01
Status	Rev				
A	M01				

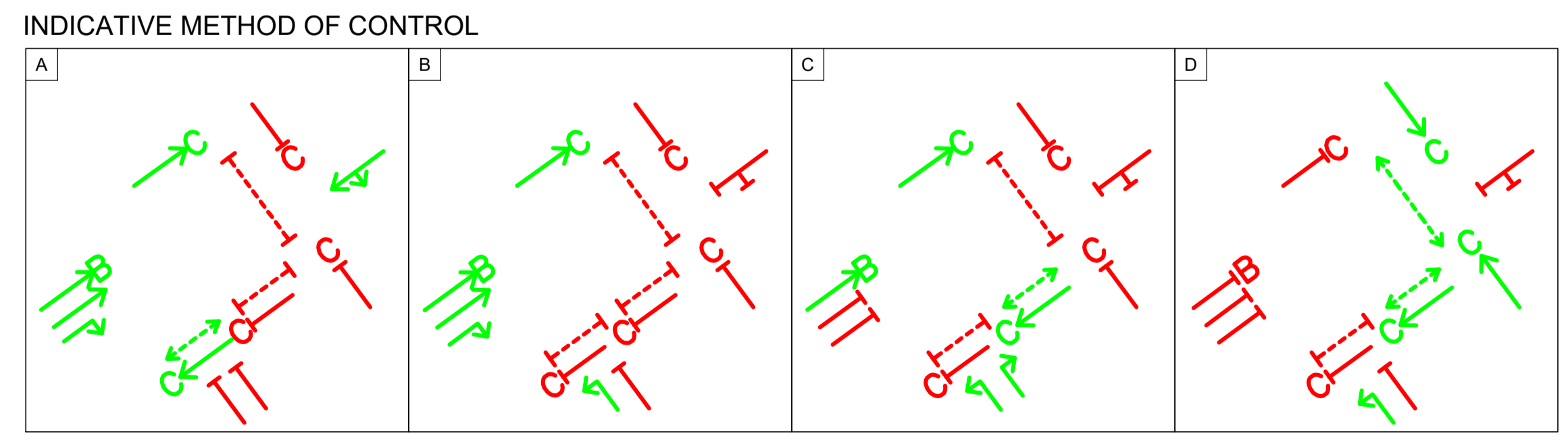
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Date	Scale	Drawn	Checked	Approved	Drawing Title
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Project Code	Originator Code	QMS Code		Drawing File Name	Sheet Number
BCIDA	ACM			BCIDA-ACM-TSM_KP-0006_XX_00-DR-TR-0001	01 of 01
Status	Rev				
A	M01				

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

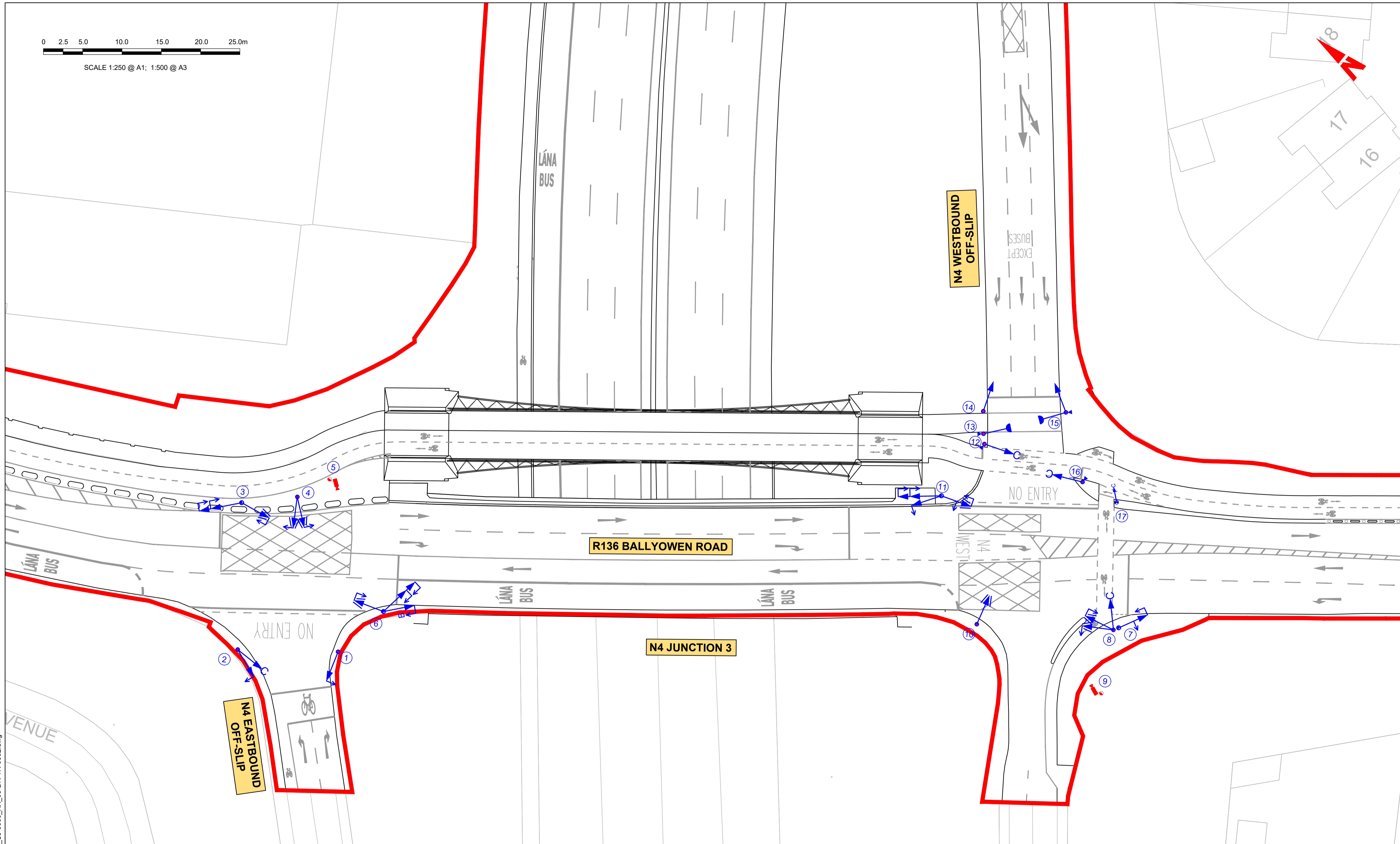
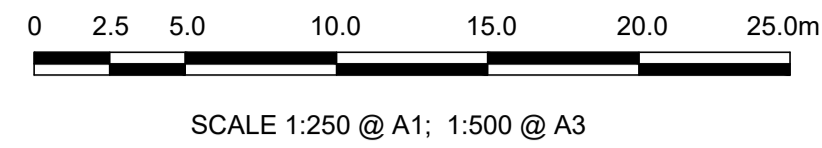
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

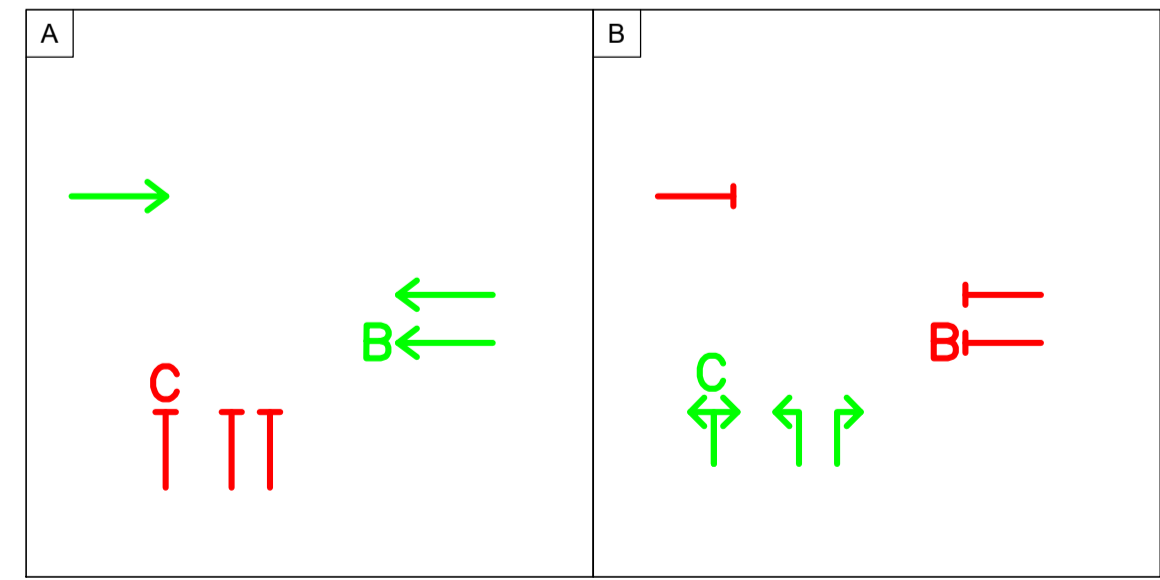
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Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / R835 LUCAN ROAD			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0001	Sheet Number: 01 of 17	Status: A	Rev: M01

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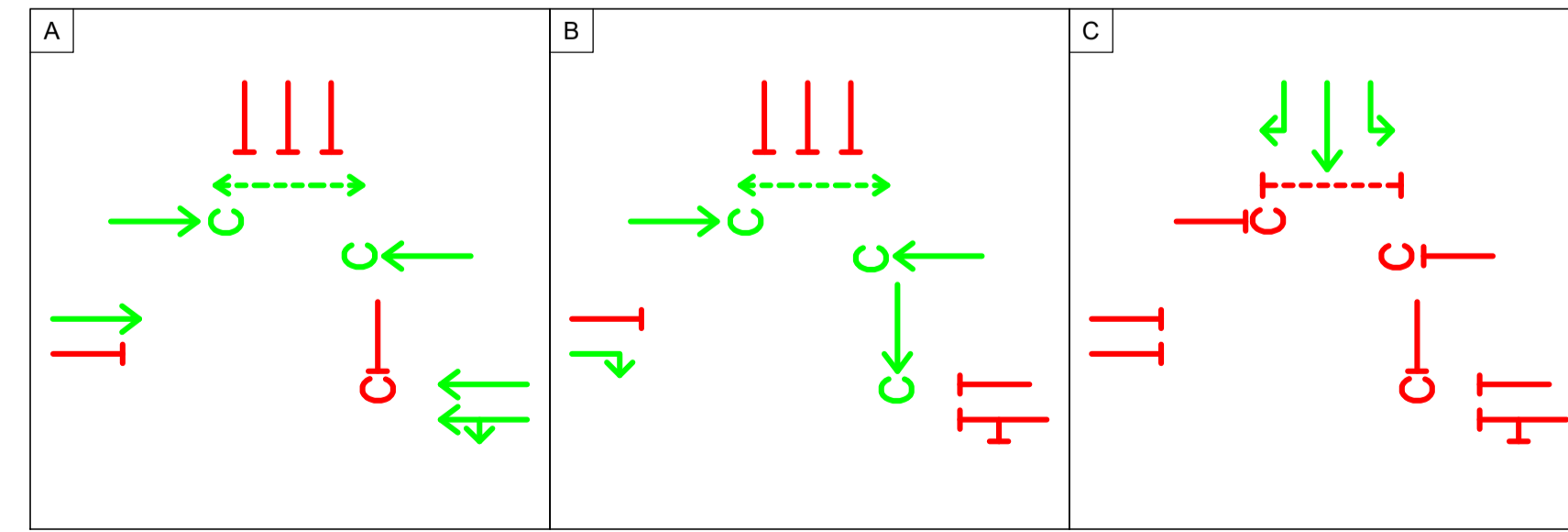


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- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B-HM) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
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 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
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 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
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 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



INDICATIVE METHOD OF CONTROL



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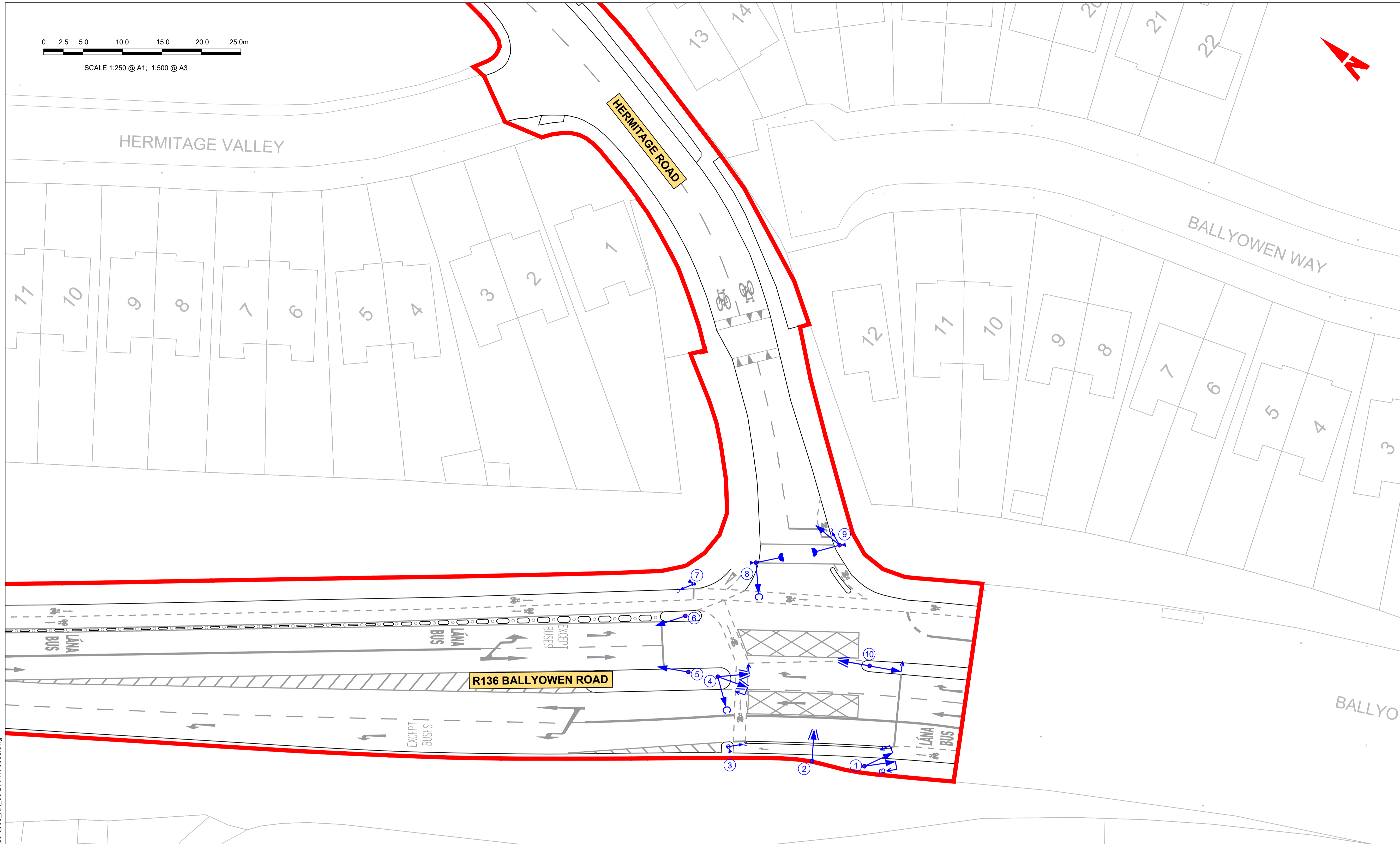
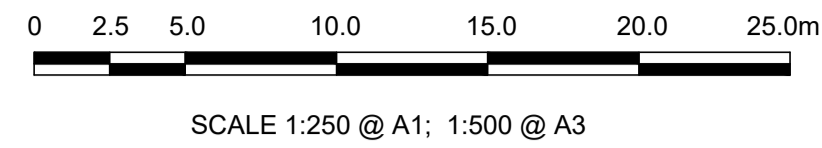
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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer AECOM M MOTT M MACDONALD	
Date 03/10/22	Scale 1:250 @ A1 1:500 @ A3	Drawn E.CHOI	Checked A.T.DALE
Approved C.ACTON	Project Code BCIDA	Originator Code ACM	QMS Code

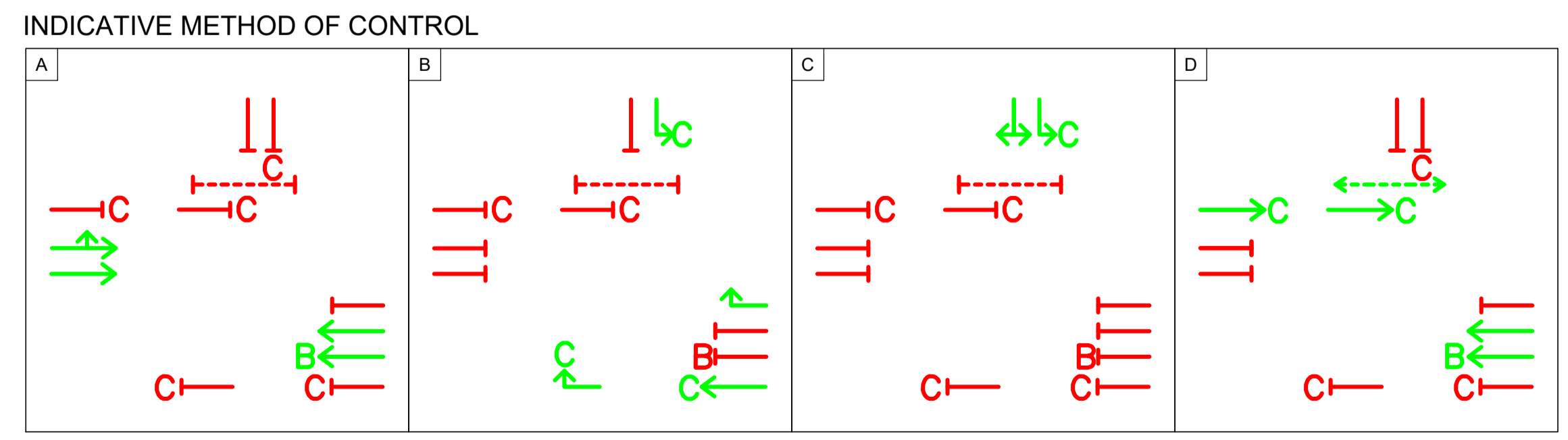
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Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / N4 JUNCTION 3			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0002	Sheet Number 02 of 17	Status A	Rev M01

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- LEGEND:**
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 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
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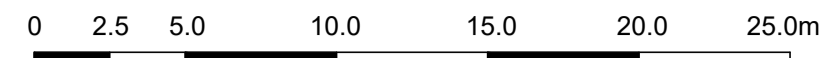
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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Date	Scale	Drawn	Checked	Approved	
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Project Code	Originator Code	QMS Code			
BCIDA	ACM				

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R136 BALLYOWEN ROAD / HERMITAGE ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0003	03 of 17	A	M01

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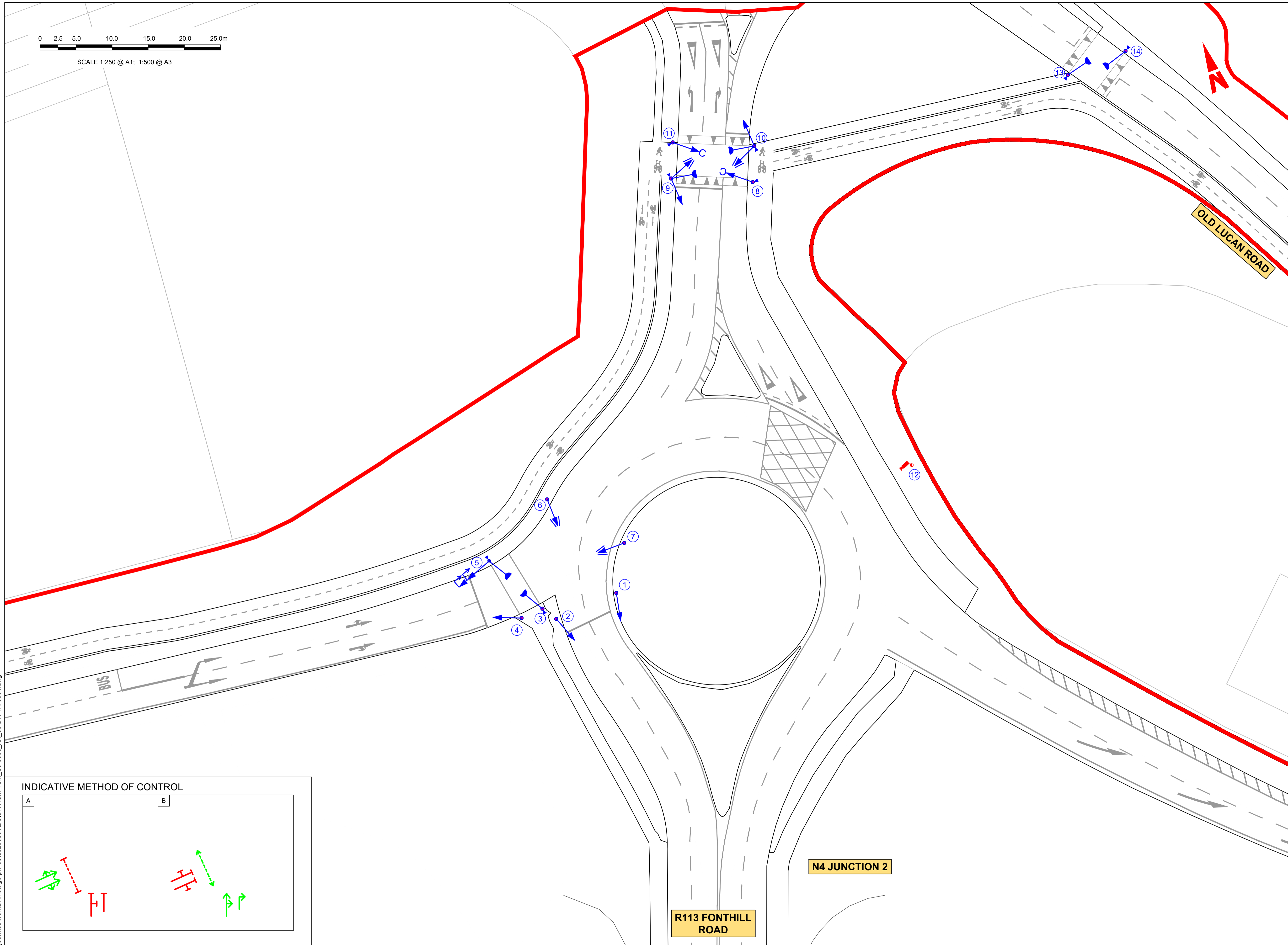
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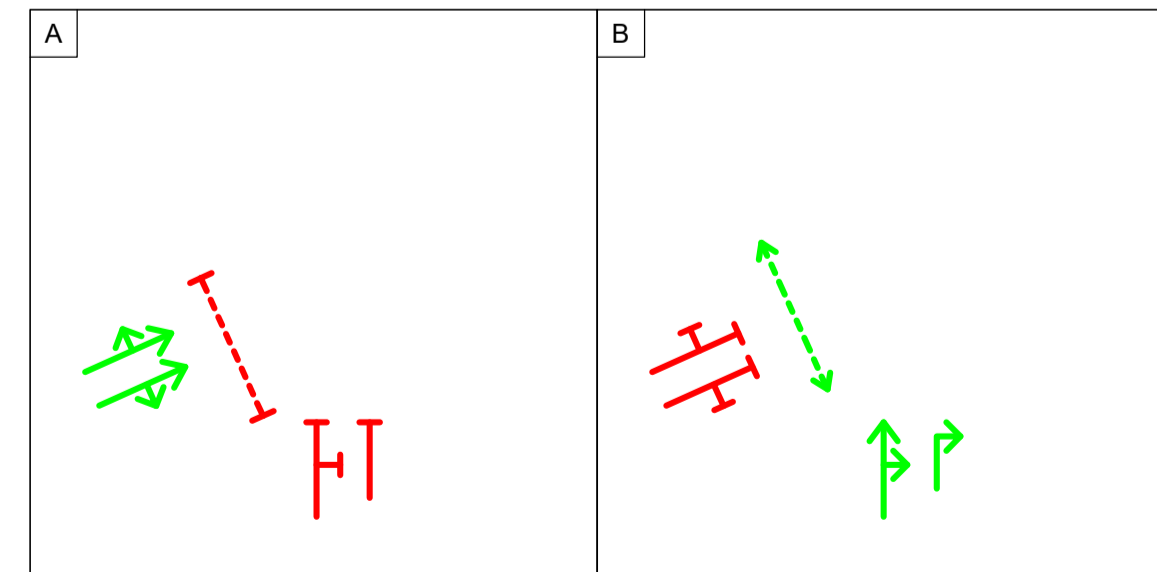
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LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(B-HM) PRIMARY
 - RTS 007 PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

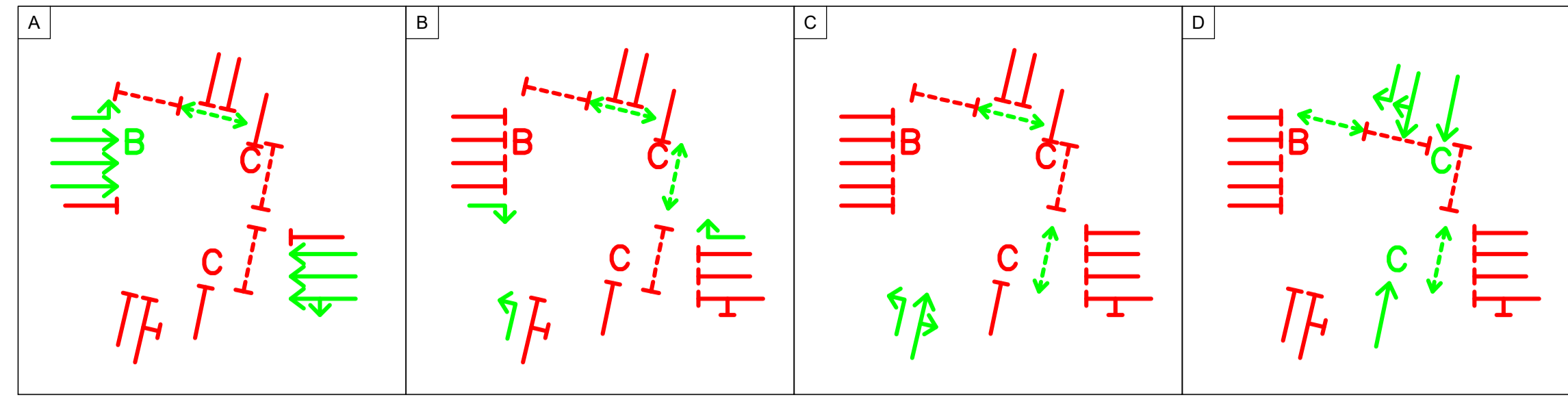
Engineering Designer

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN N4 JUNCTION 2			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0004	Sheet Number 04 of 16	Status A	Rev M01

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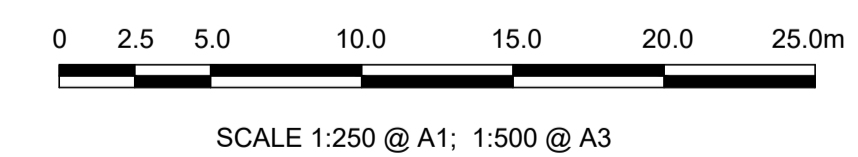
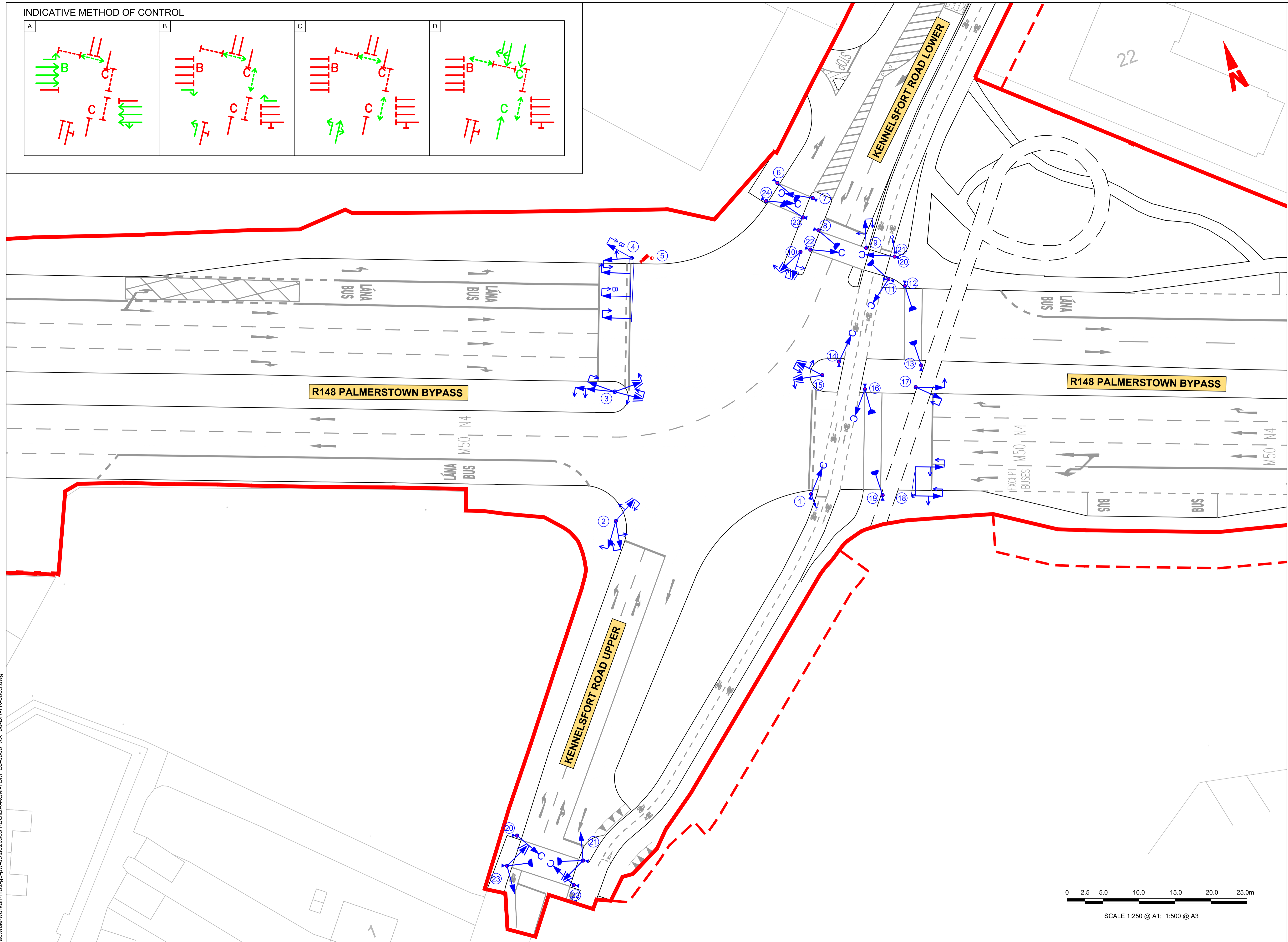
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INDICATIVE METHOD OF CONTROL



LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C-HM) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 003(J) PRIMARY
 - RTS 003(J) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

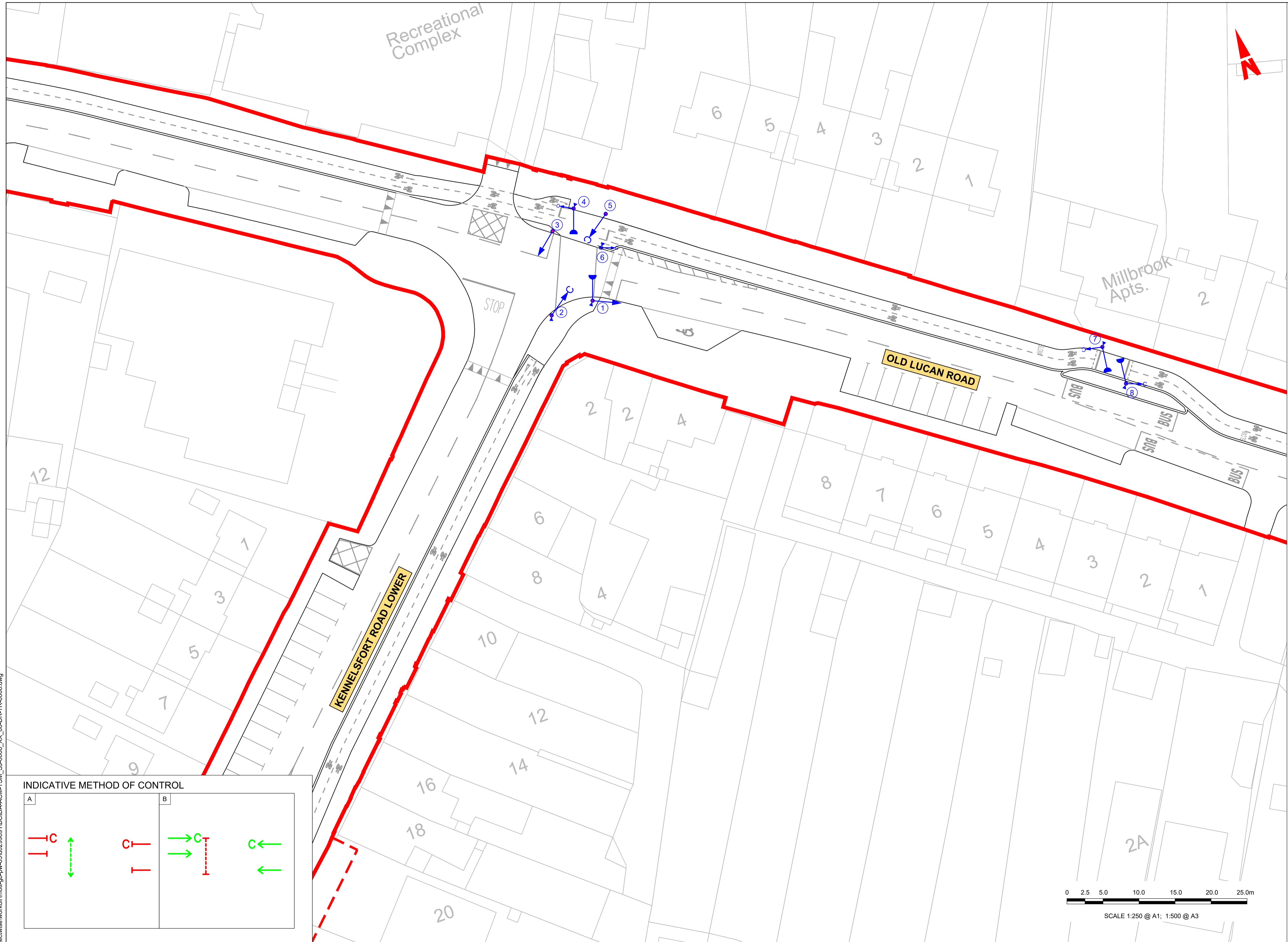
Client

Engineering Designer

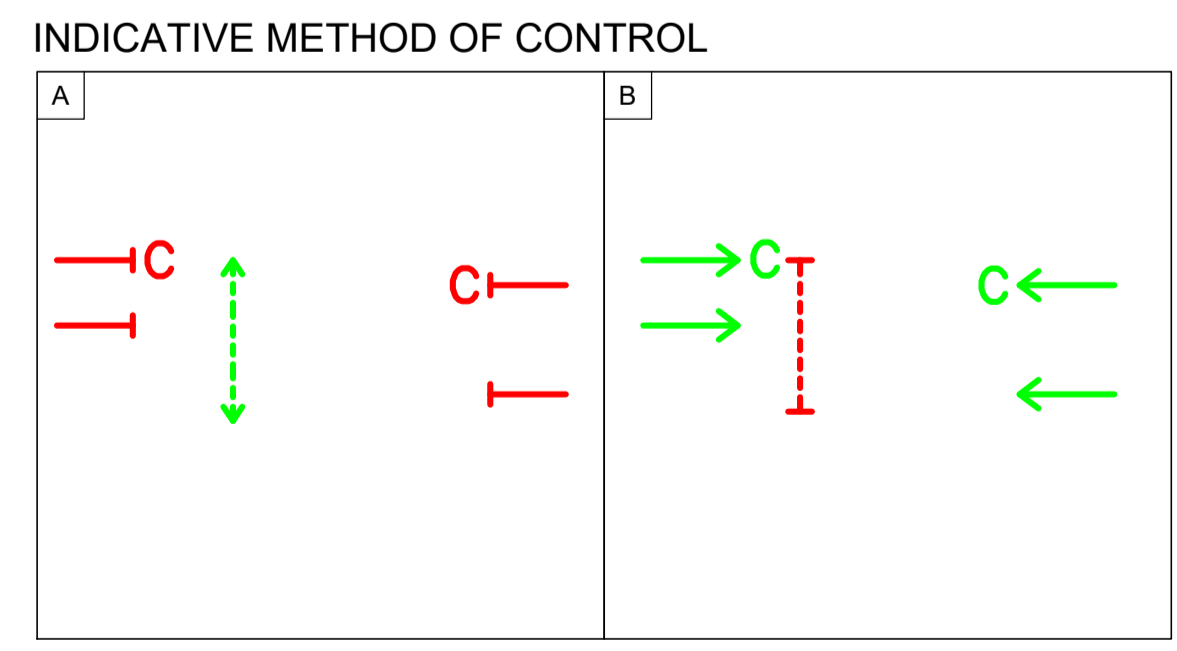
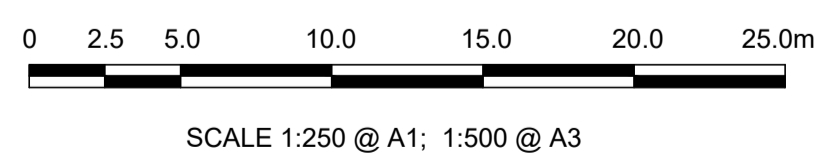
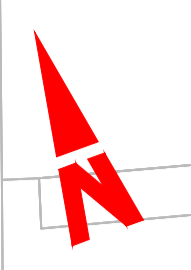
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 PALMERSTOWN BYPASS / KENNELSFORT ROAD			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0005	Sheet Number 05 of 17	Status A	Rev M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

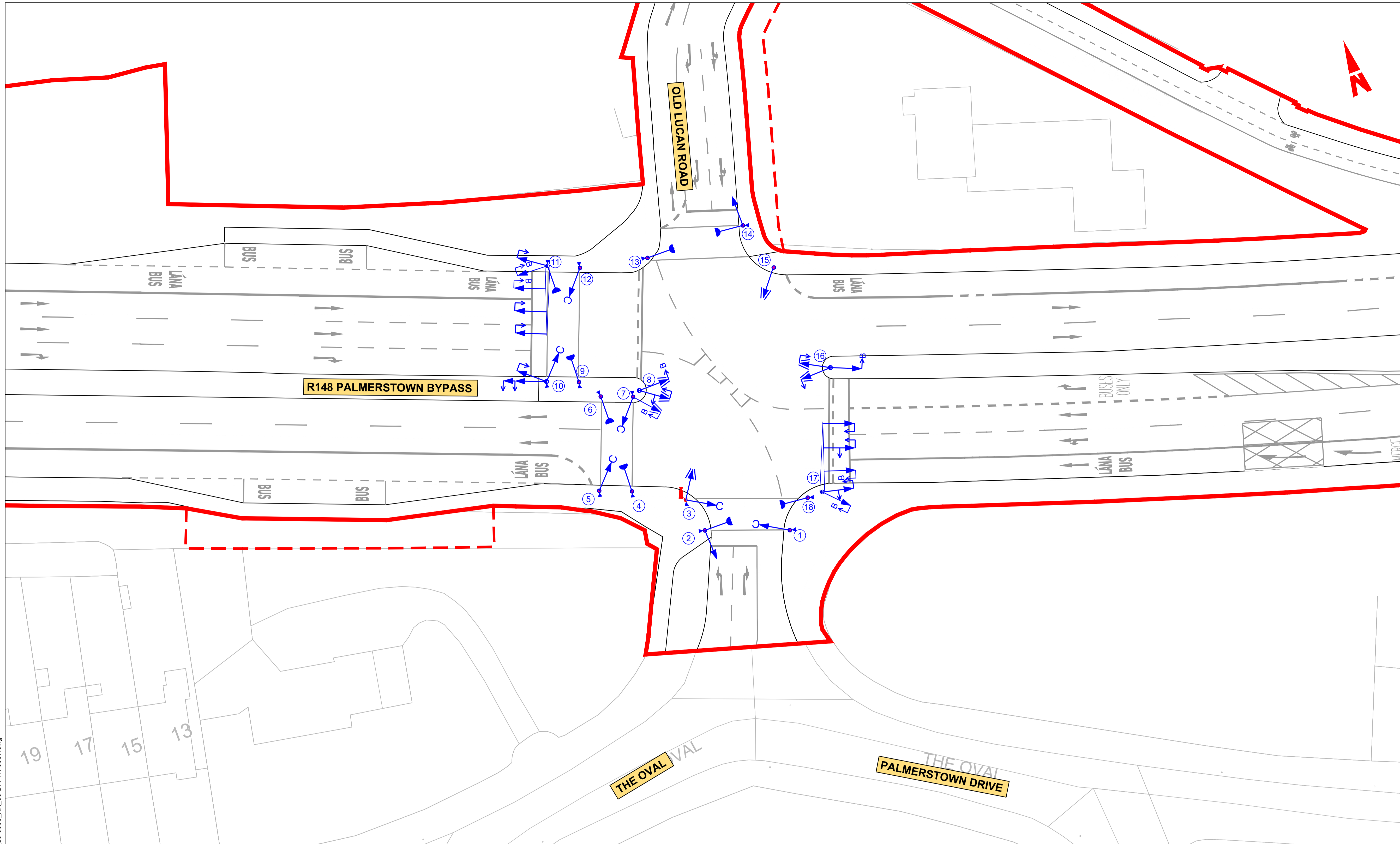
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

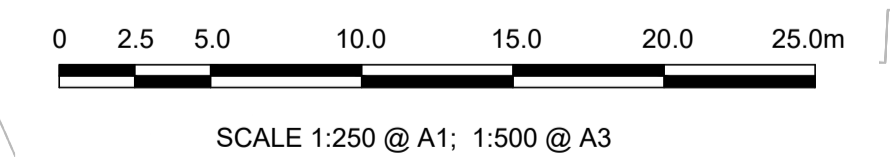
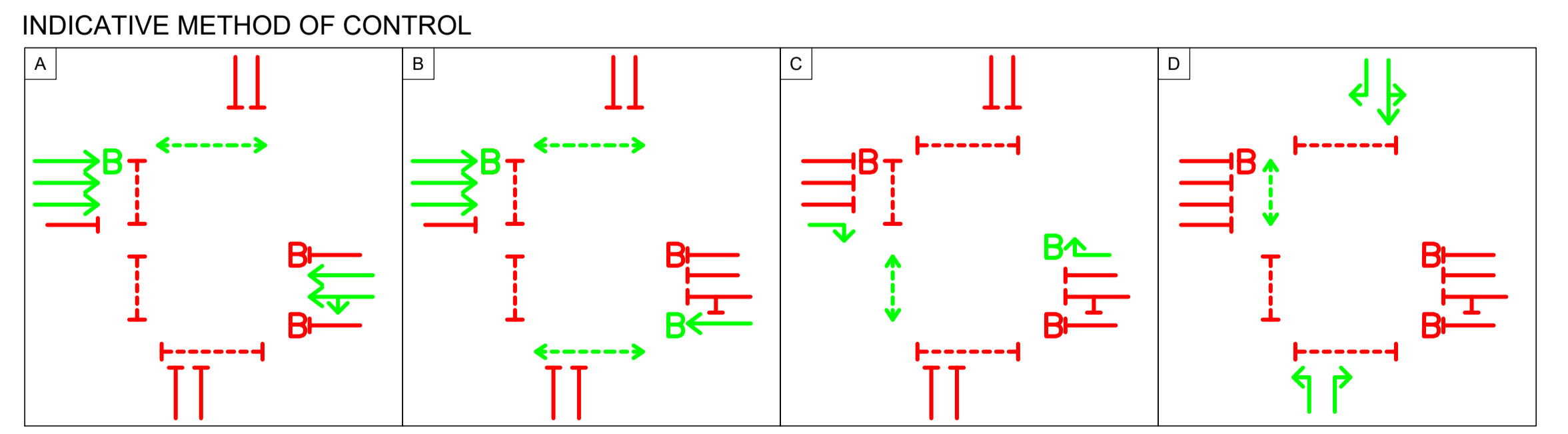
Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN OLD LUCAN ROAD / KENNELSFORT ROAD LOWER			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0006	Sheet Number: 06 of 17	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C-HM) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 002(J) PRIMARY
 - RTS 002(J) SECONDARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 007 PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22
Scale: 1:250 @ A1, 1:500 @ A3

Drawn: E.CHOI
Checked: A.T.DALE
Approved: C.ACTON

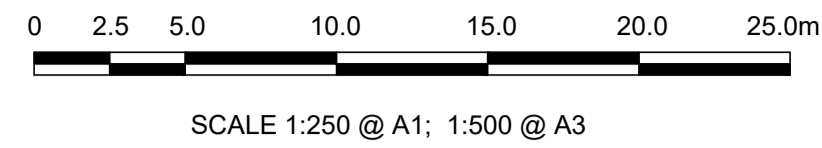
Project Code: BCIDA
Originator Code: ACM

QMS Code:

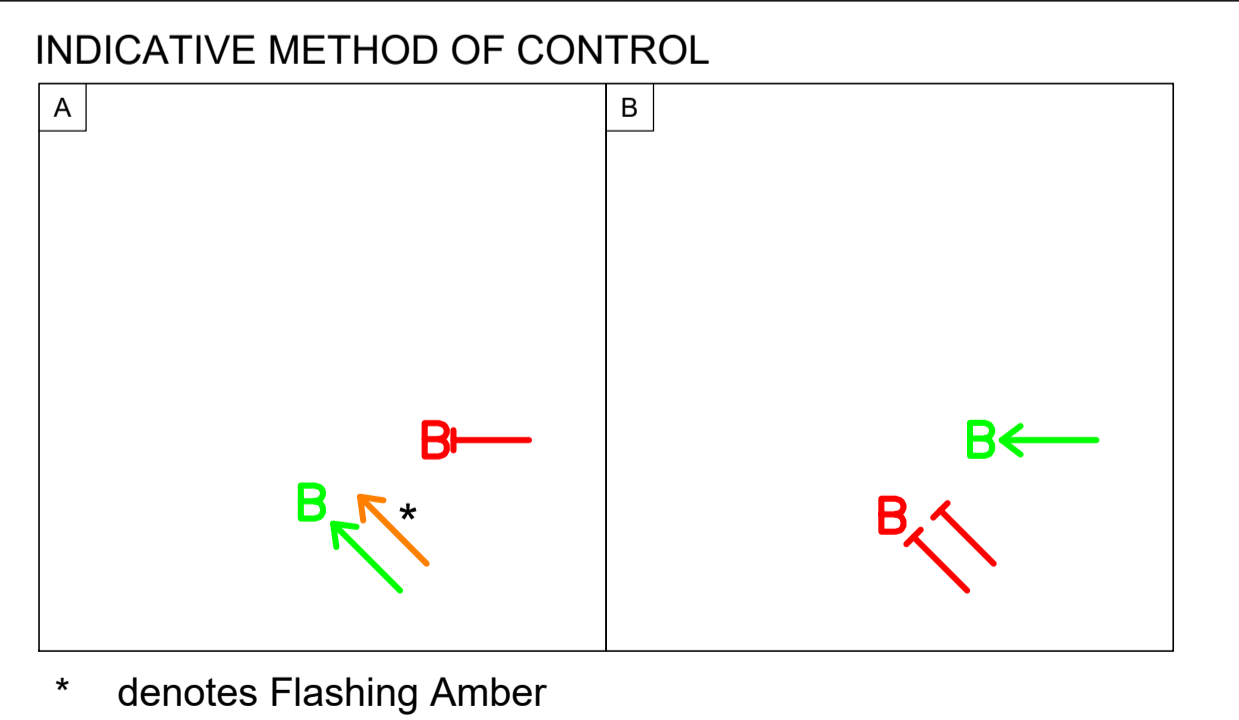
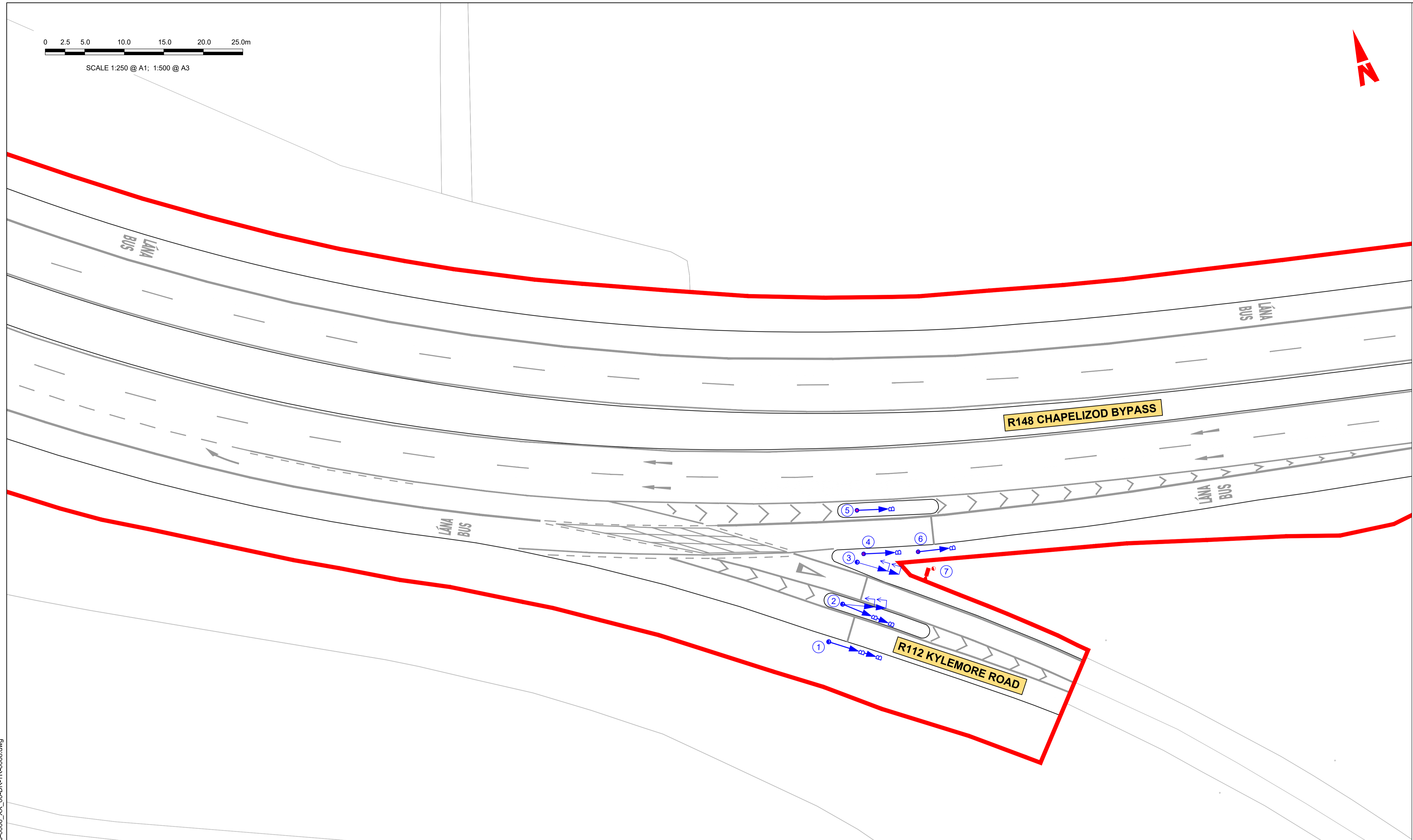
Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 PALMERSTOWN BYPASS / THE OVAL			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0007	Sheet Number: 07 of 17	Status: A	Rev: M01

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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 004 PRIMARY
 - RTS 002(D) PRIMARY
 - RTS 002(D-HM) PRIMARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **AECOM** **MOTT MACDONALD**

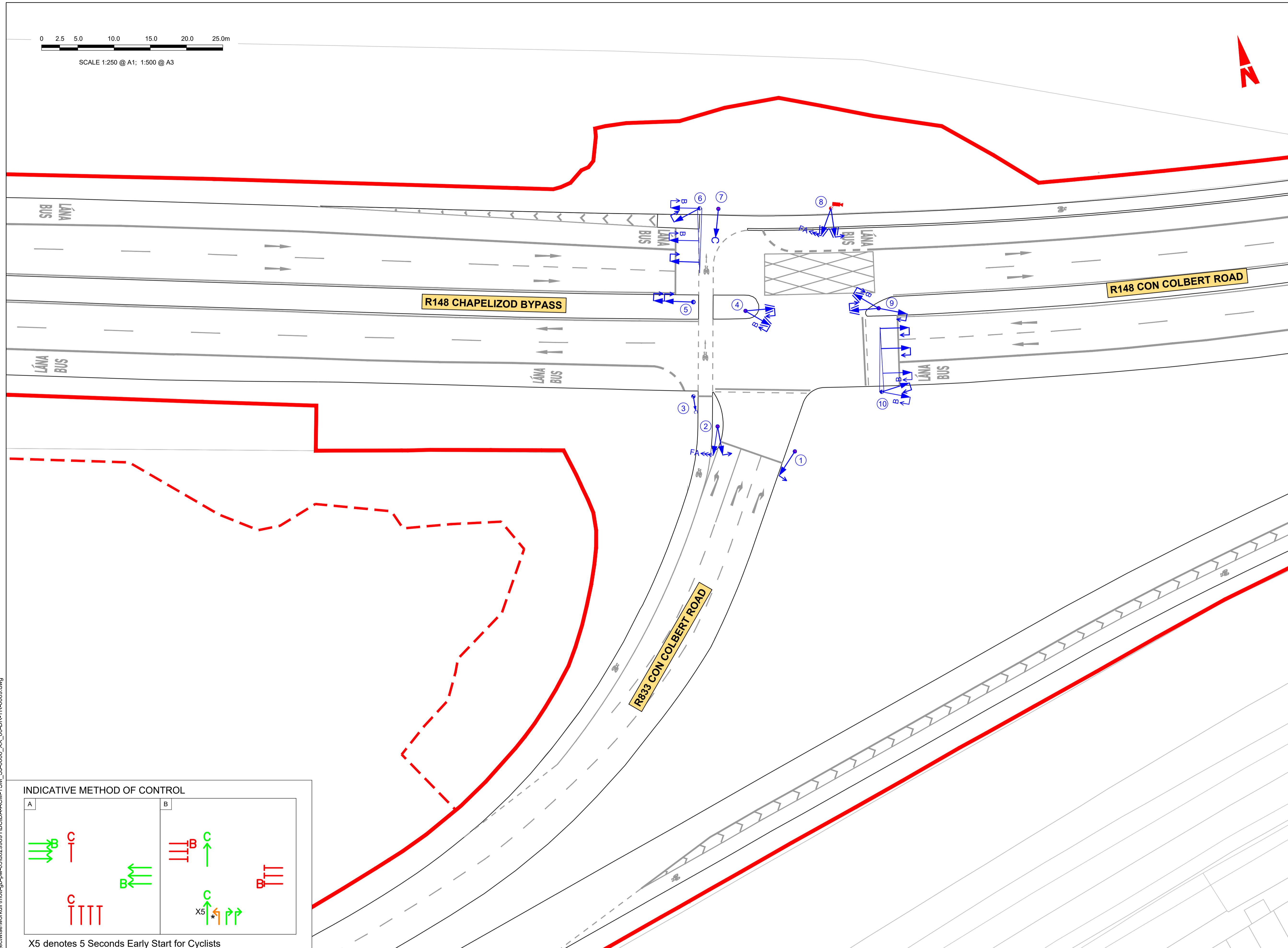
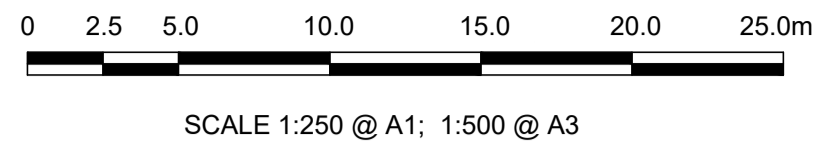
Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 CHAPELIZOD BYPASS / R112 KYLEMORE ROAD			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0008	Sheet Number: 08 of 17	Status: A	Rev: M01

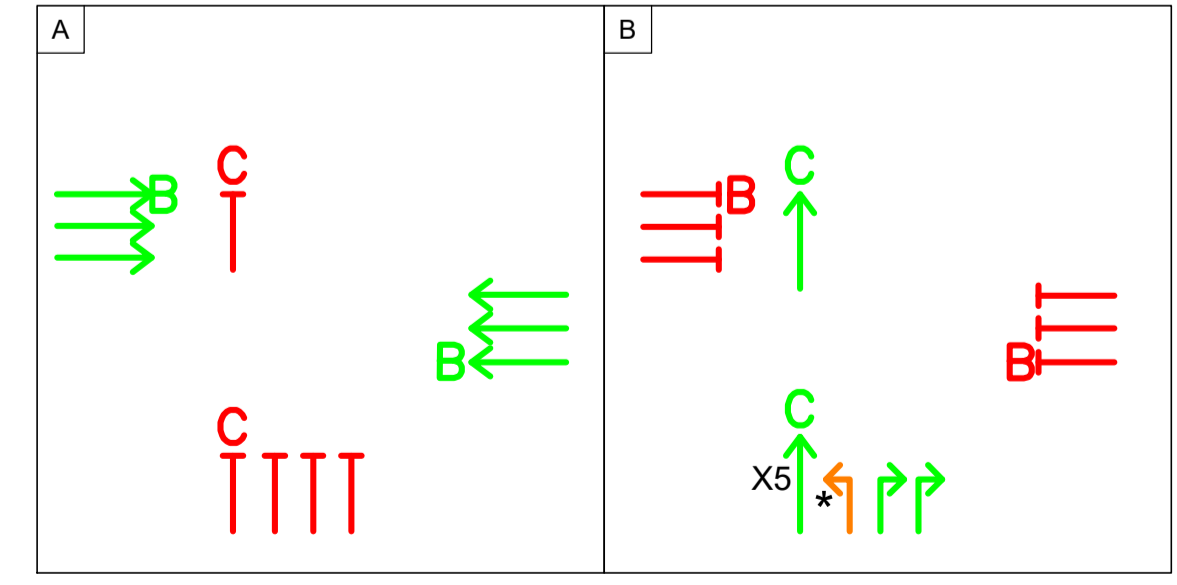
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- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002(B) PRIMARY
 - RTS 002(B-HM) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 004(A) PRIMARY
 - RTS 004(A) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



X5 denotes 5 Seconds Early Start for Cyclists

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Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **AECOM** MOTT MACDONALD

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

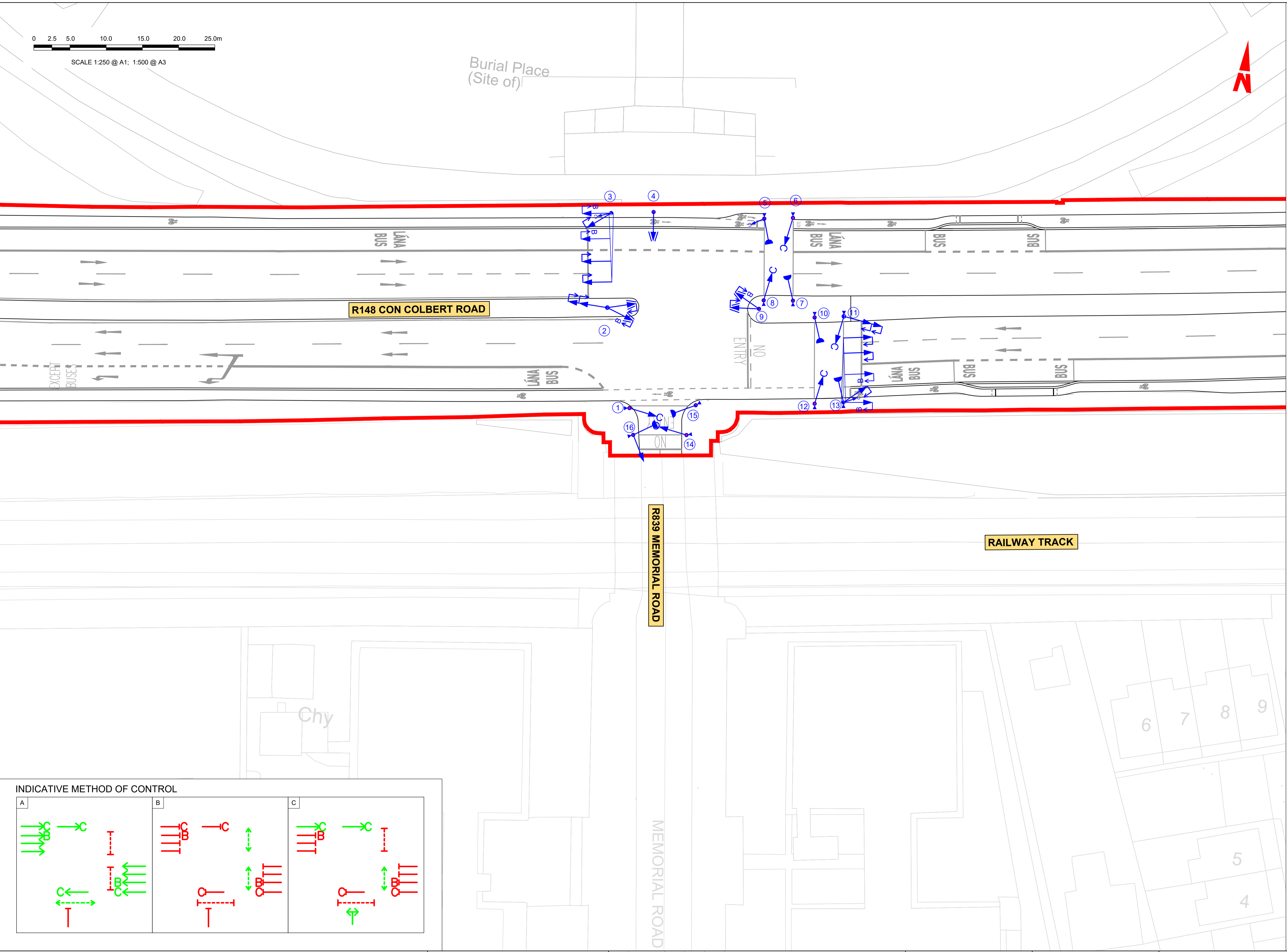
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Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 CHAPELIZOD BYPASS / R148 CON COLBERT ROAD			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0009	Sheet Number: 09 of 17	Status: A	Rev: M01

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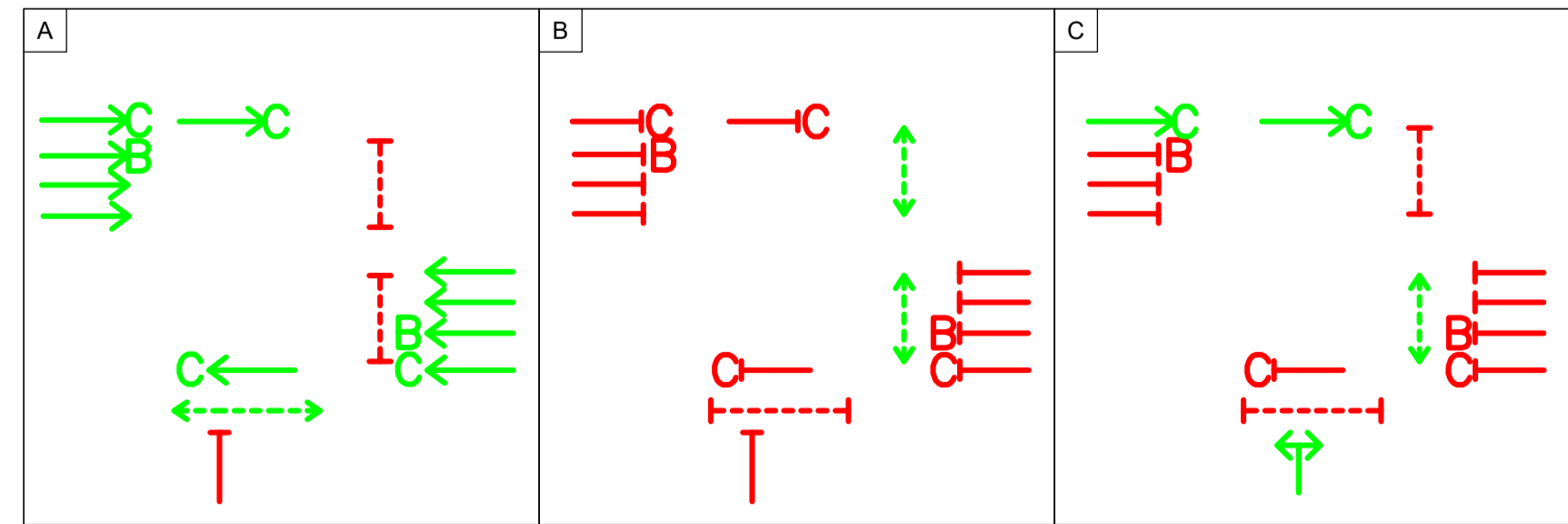
SCALE 1:250 @ A1; 1:500 @ A3

Burial Place
(Site of)



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B-HM) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

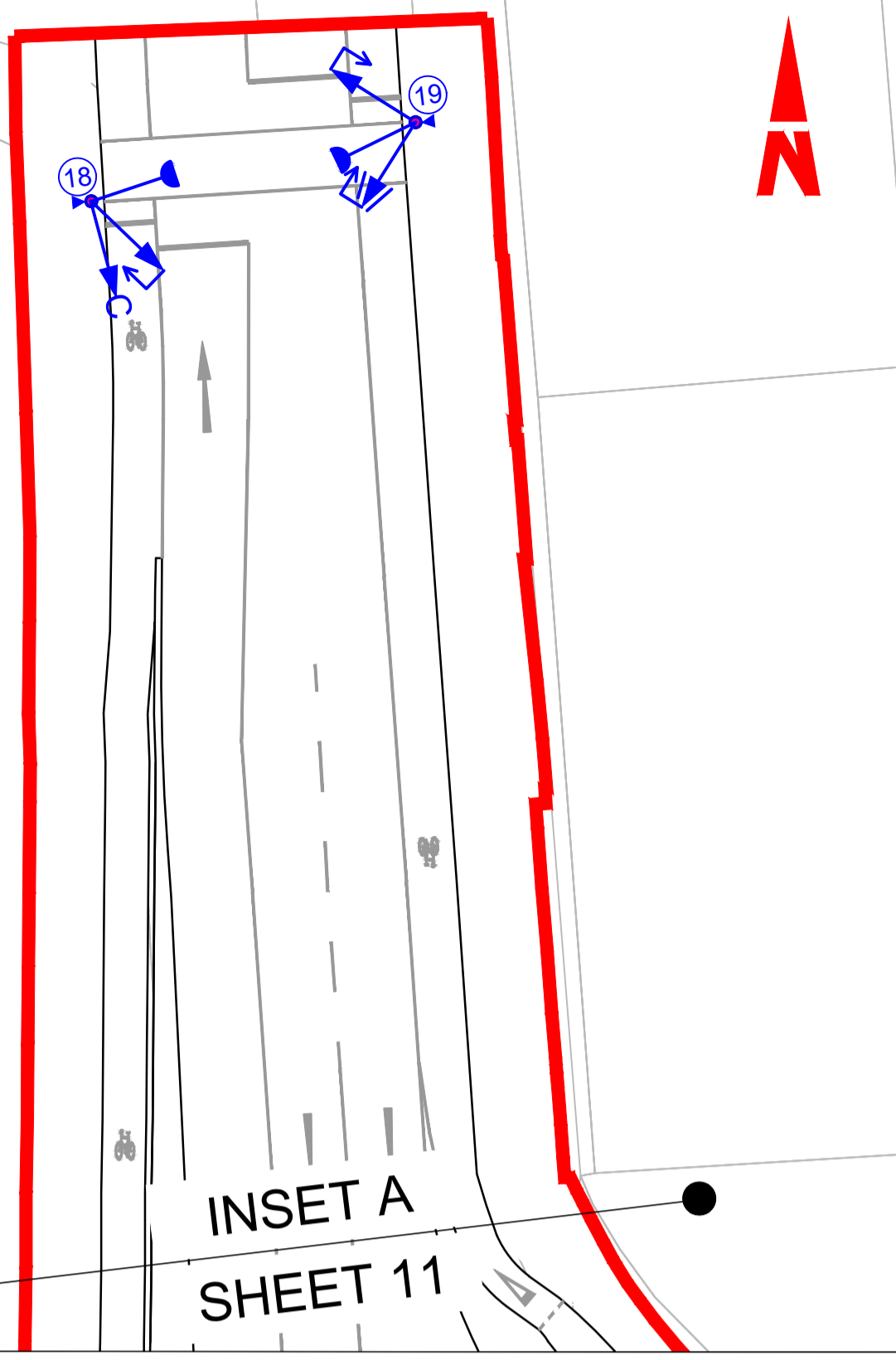
Engineering Designer

Programme Title		BUSCONNECTS DUBLIN	
		CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title			
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME			
JUNCTION SYSTEMS DESIGN			
R148 CON COLBERT ROAD / R839 MEMORIAL ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0010	10 of 17	A	M01

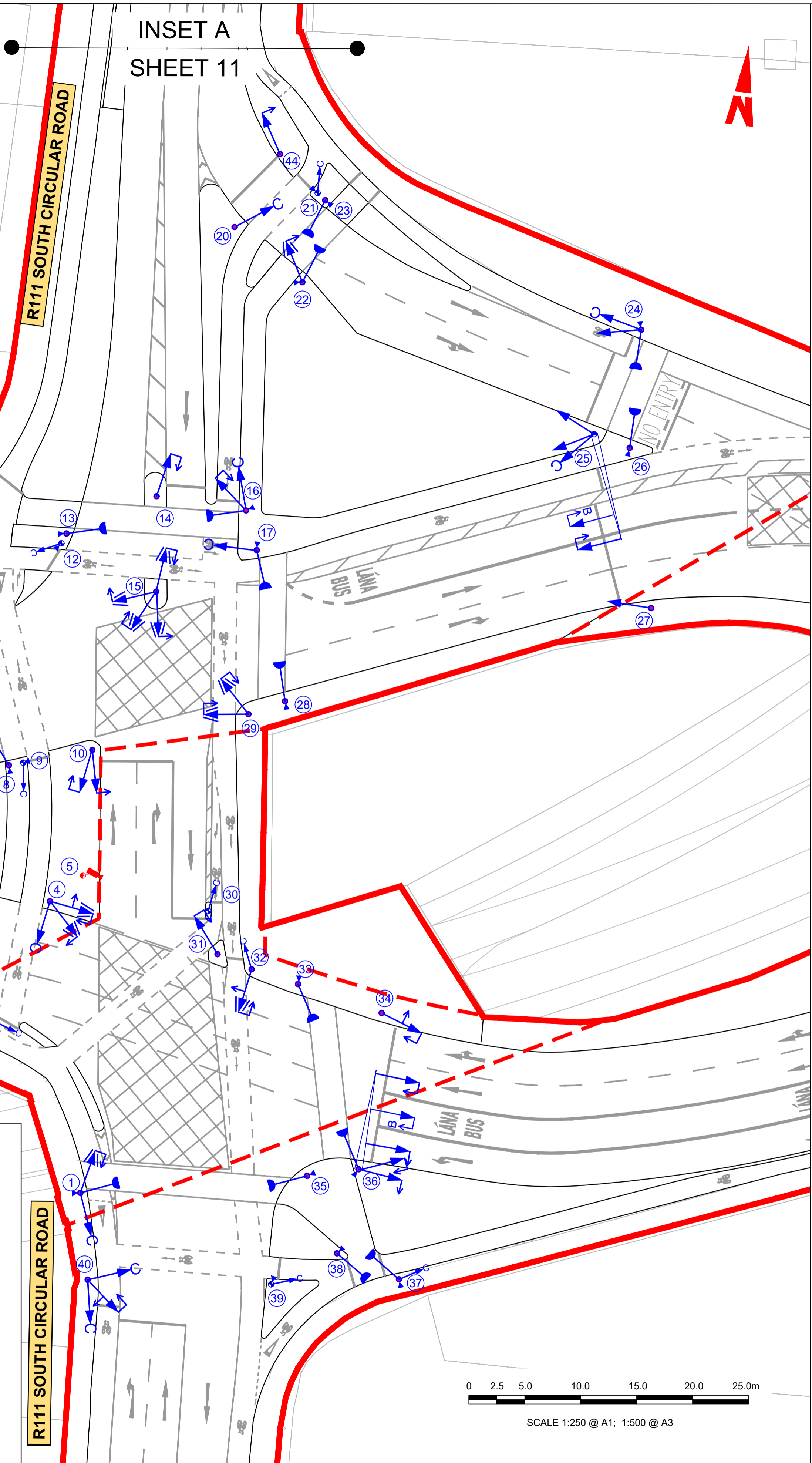
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INSET A



INSET A SHEET 11

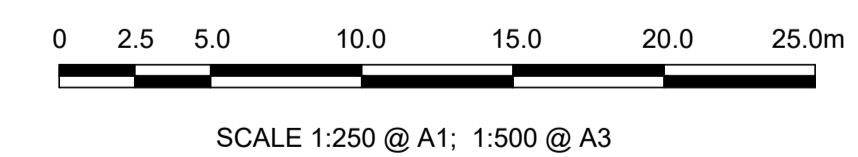


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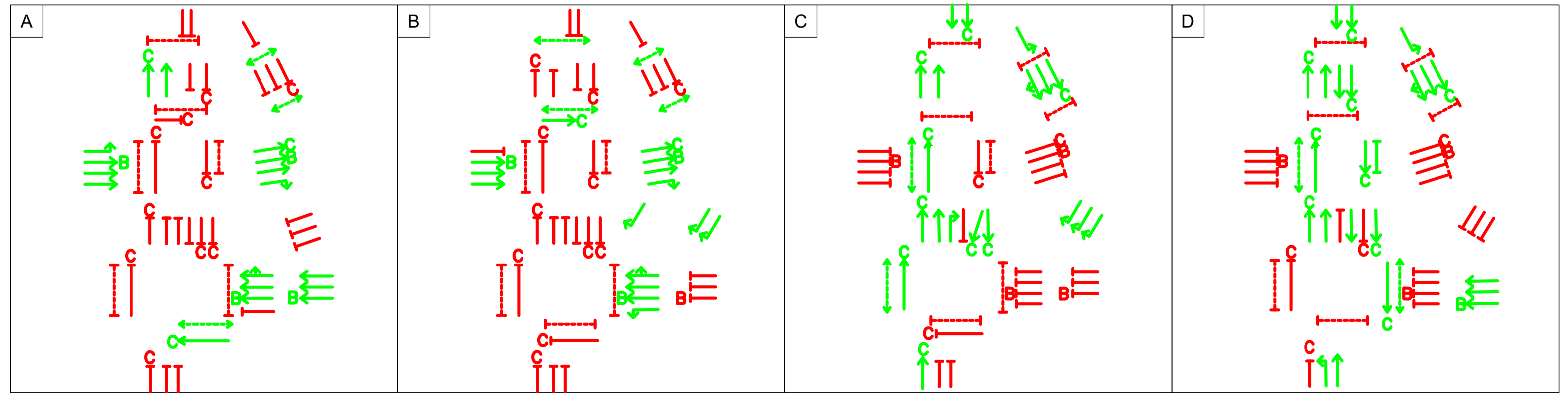
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- RTS 001 PRIMARY
 - RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 003(J) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD

- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA

- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

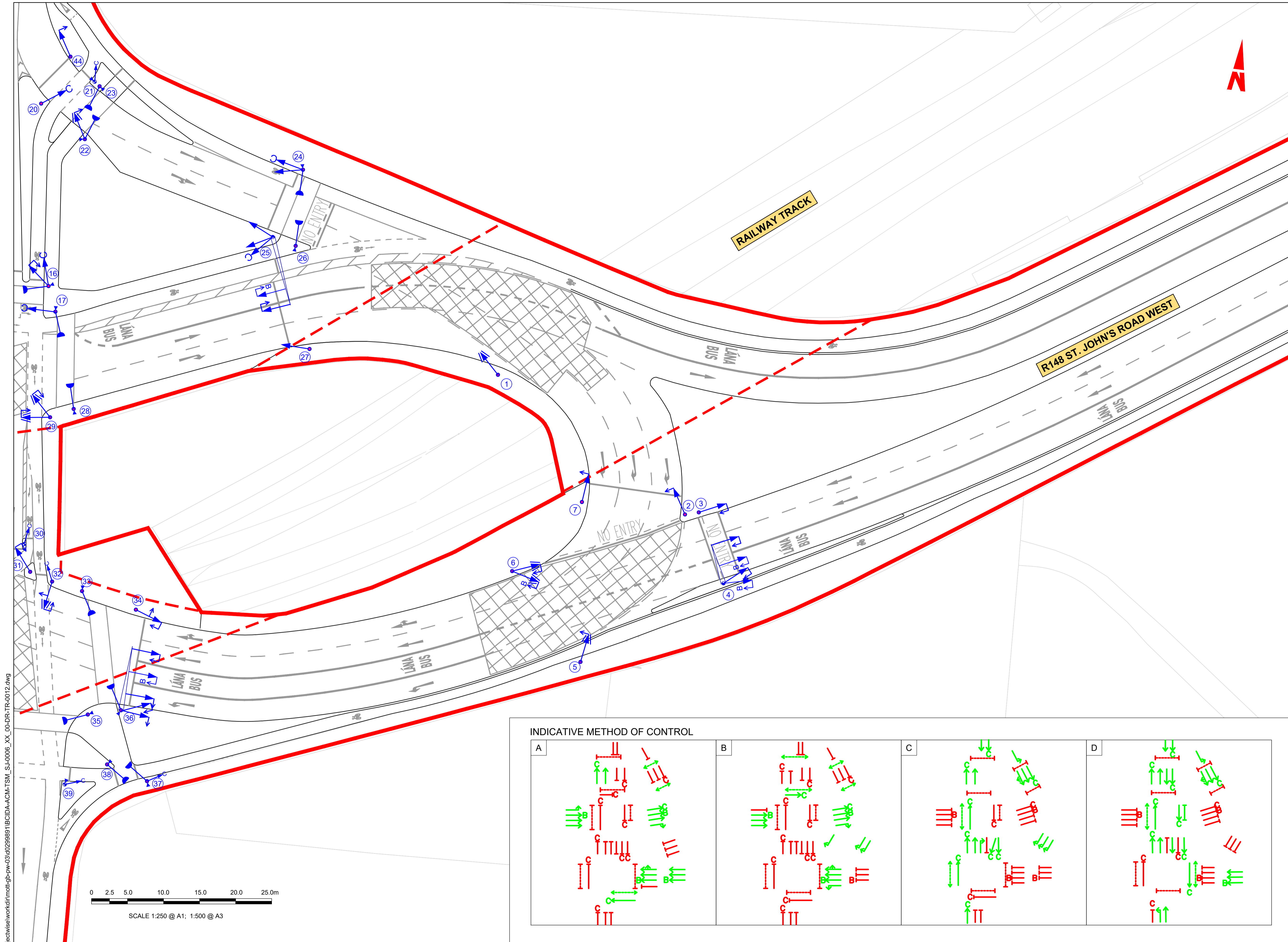
Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

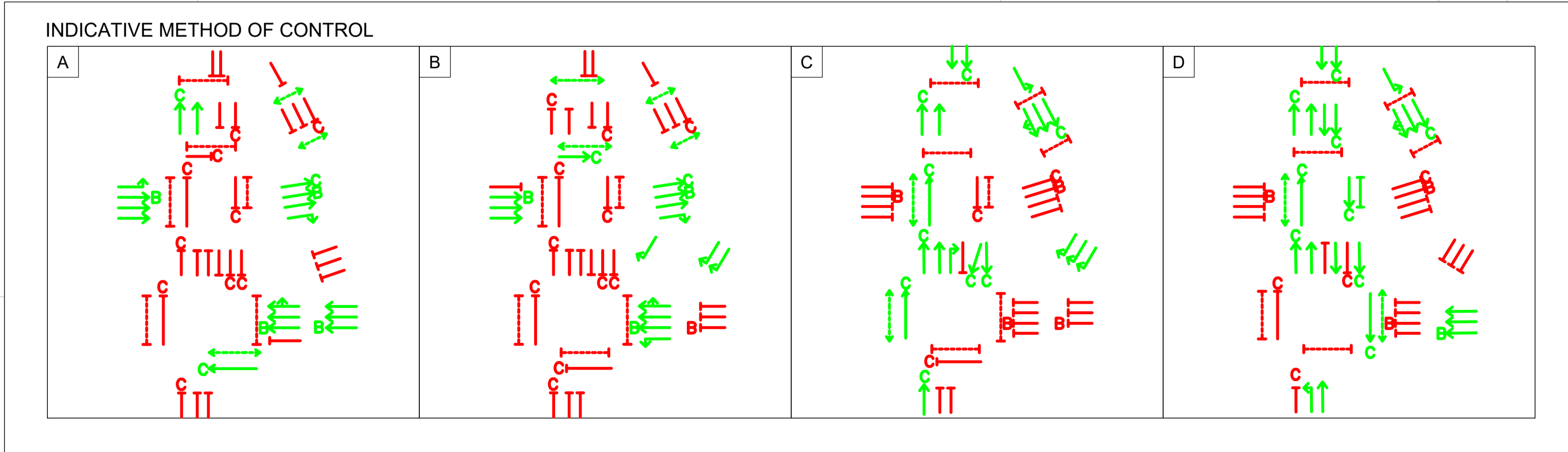
Drawing Title: **LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN CON COLBERT ROAD / R111 SOUTH CIRCULAR ROAD**

Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0011	Sheet Number: 11 of 17	Status: A	Rev: M01
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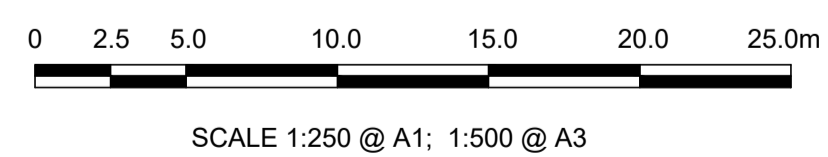
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 001 SECONDARY
 - RTS 002(A) PRIMARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 003(J) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
Údarás Náisiúnta Iompair
National Transport Authority

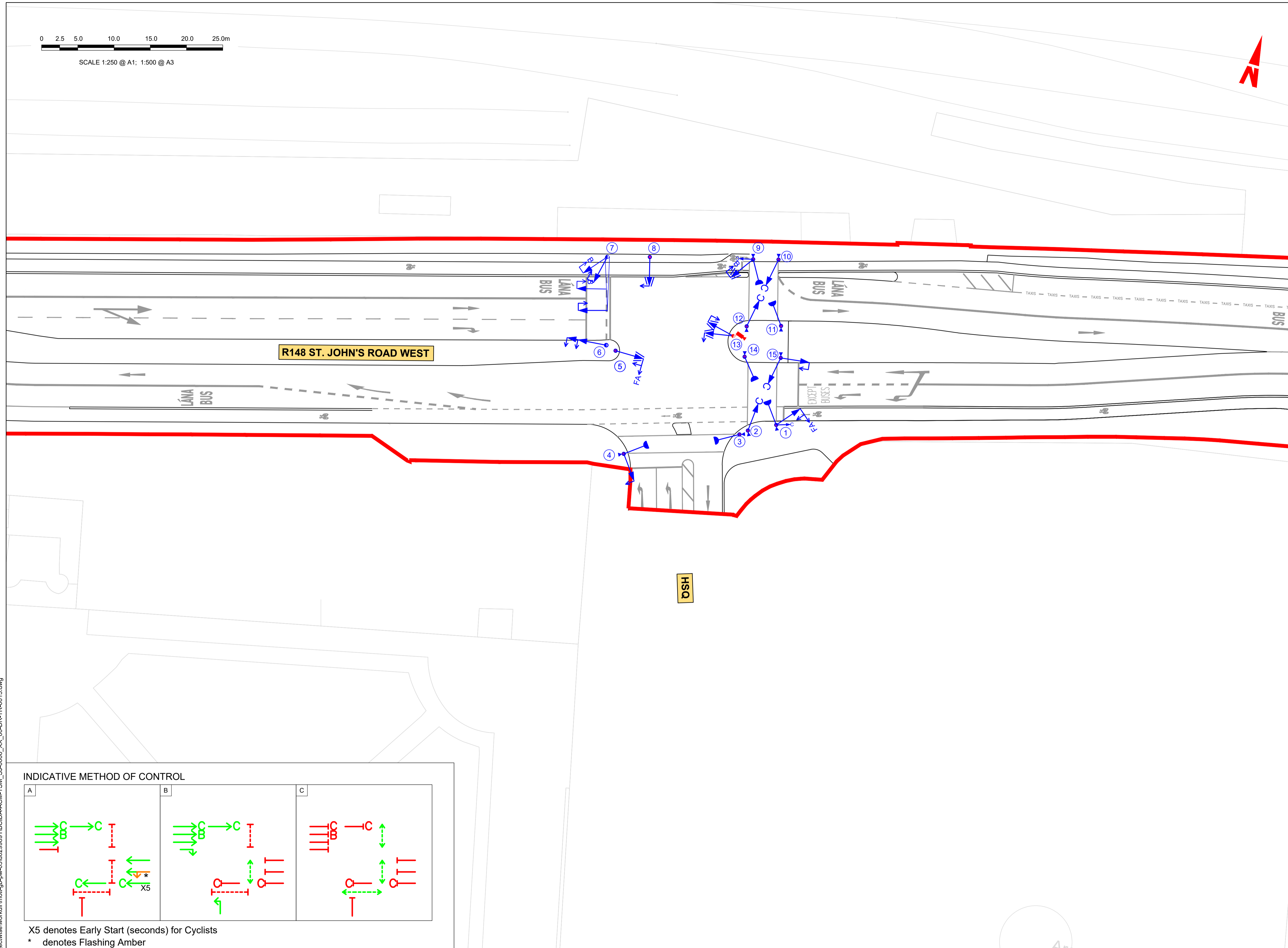
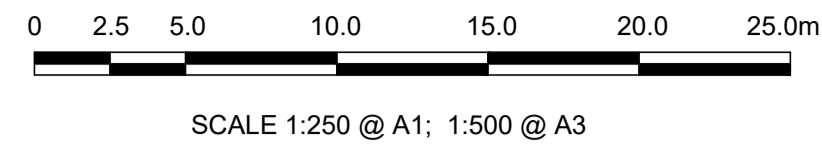
Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / R111 SOUTH CIRCULAR ROAD			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0012	Sheet Number: 12 of 17	Status: A	Rev: M01

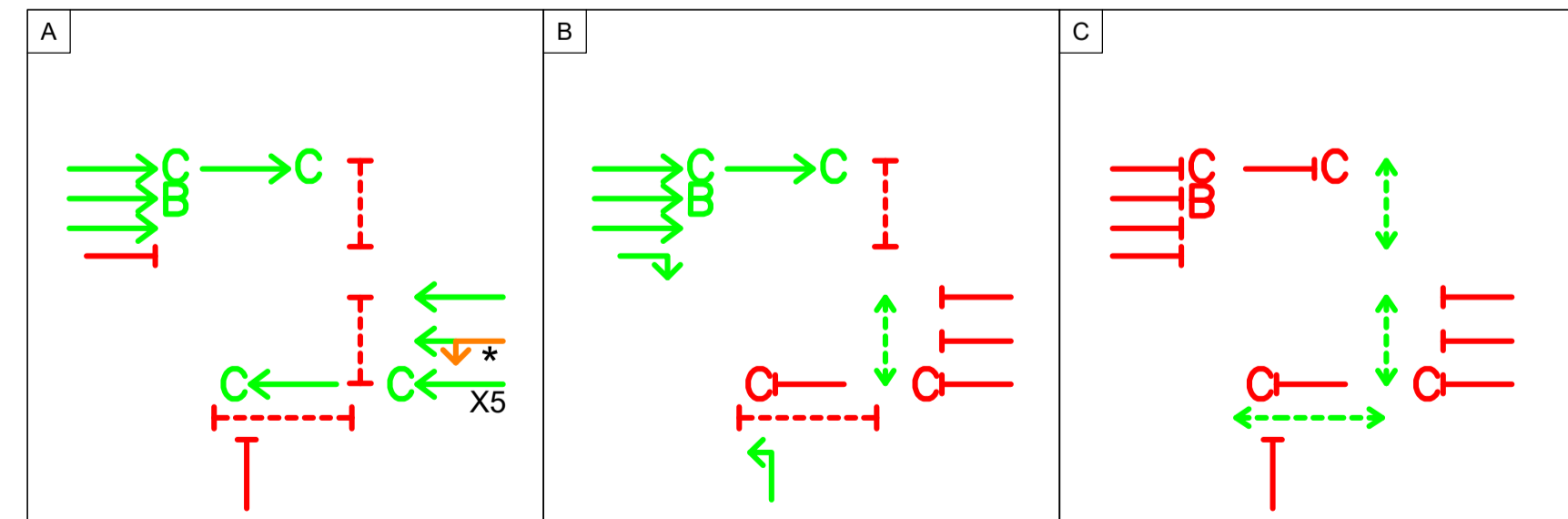
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C-HM) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 003 PRIMARY
 - RTS 003 SECONDARY
 - RTS 003(H) PRIMARY
 - RTS 003(H) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



X5 denotes Early Start (seconds) for Cyclists
 * denotes Flashing Amber

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Client
NTA
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer
AECOM **M**
MOTT **M**
MACDONALD

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / H5Q			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0013	Sheet Number 13 of 17	Status A	Rev M01

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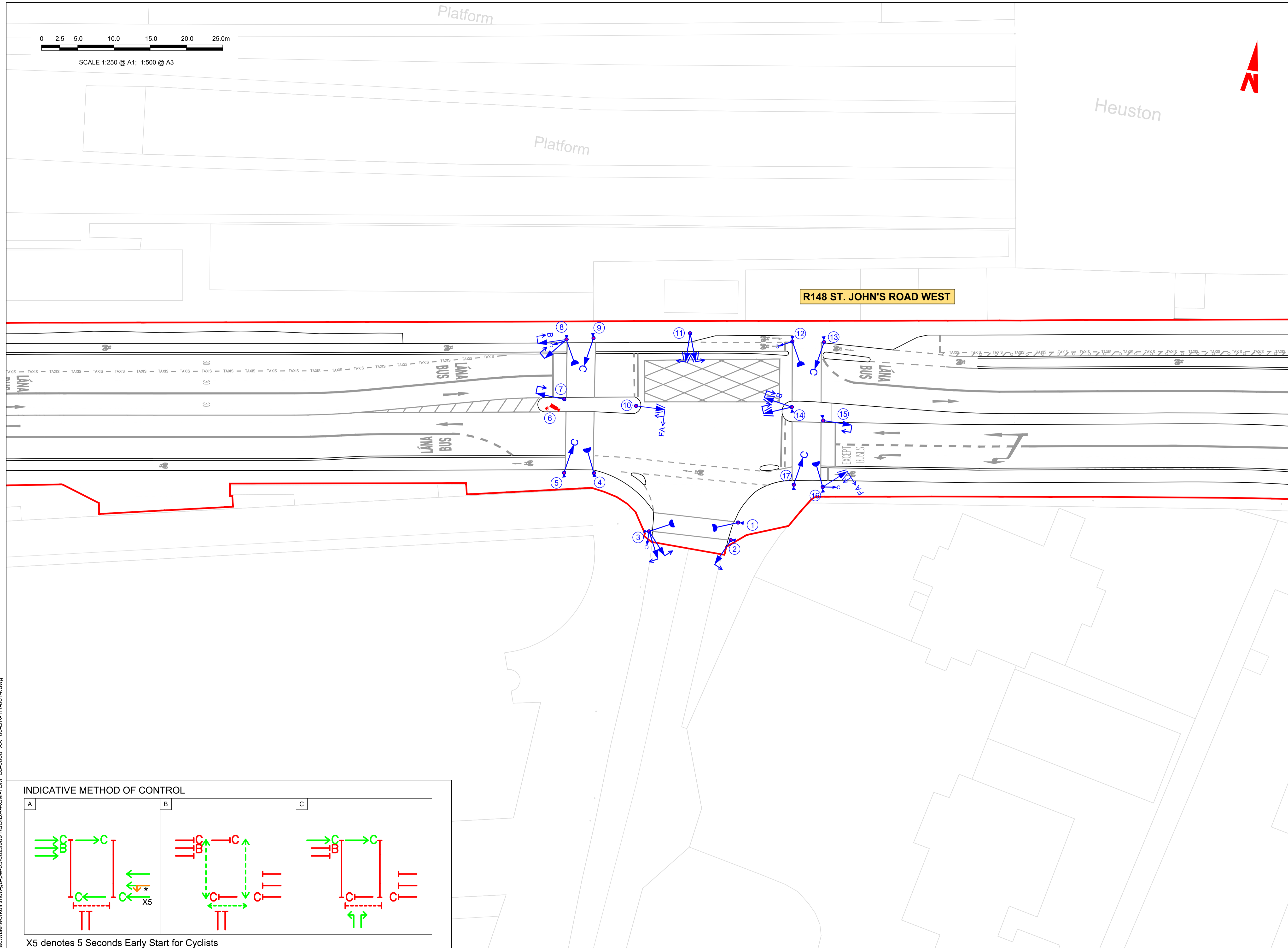
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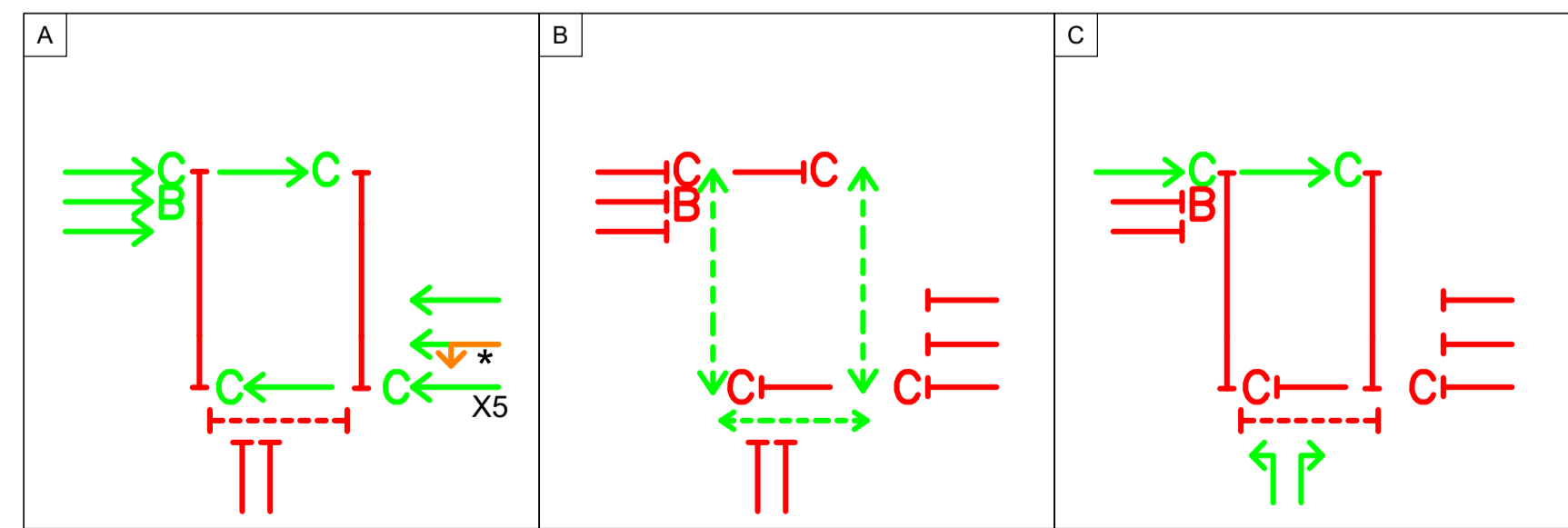


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 002(C) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 003 PRIMARY
 - RTS 003 SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



X5 denotes 5 Seconds Early Start for Cyclists

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Client

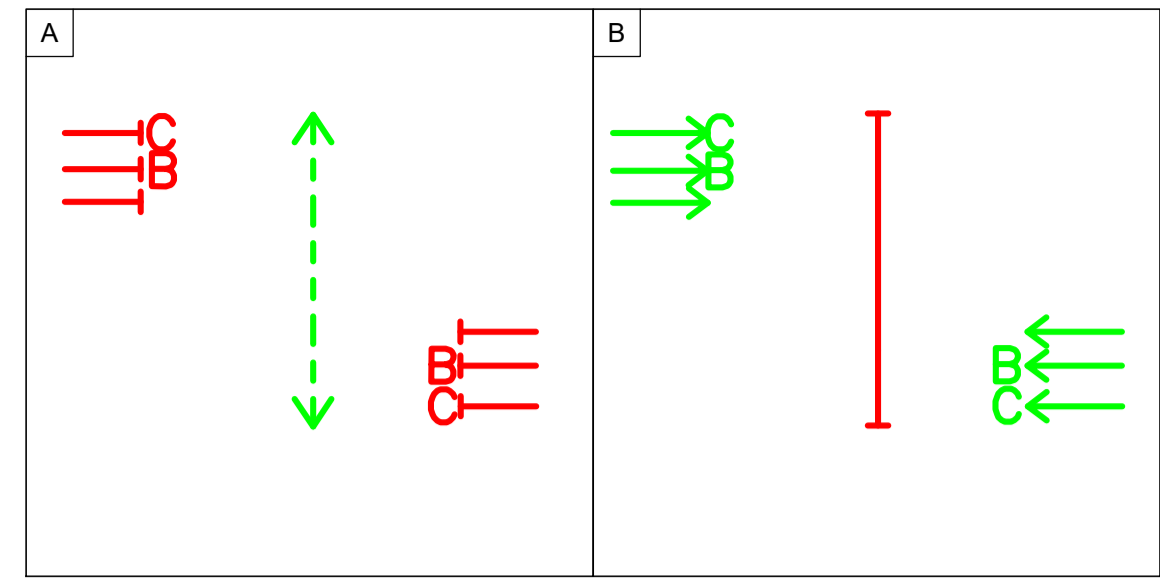
Engineering Designer

Programme Title			
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title			
LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN R148 ST. JOHN'S ROAD WEST / MILITARY ROAD			
Drawing File Name	Sheet Number	Status	Rev
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0014	14 of 17	A	M01

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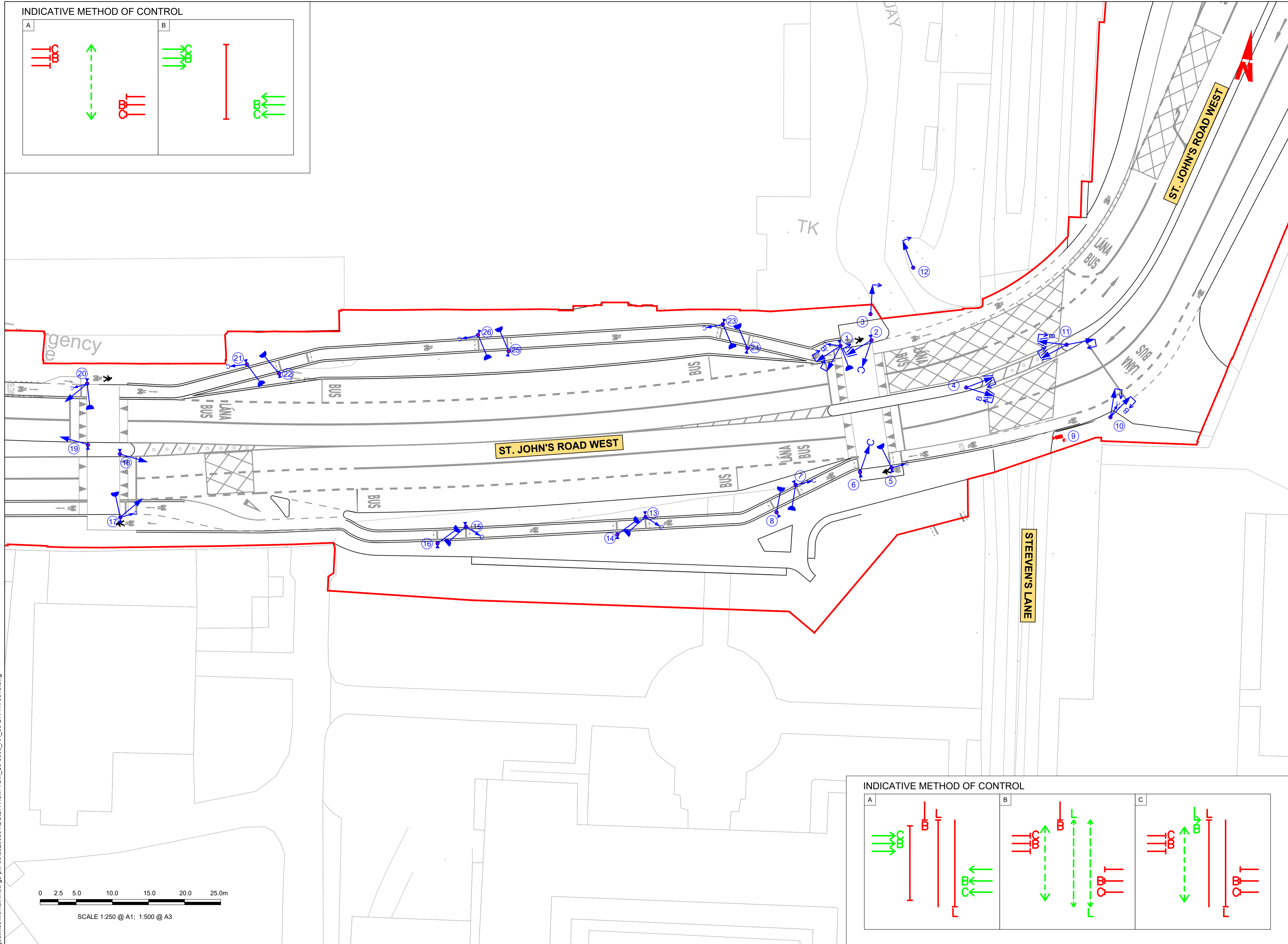
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INDICATIVE METHOD OF CONTROL

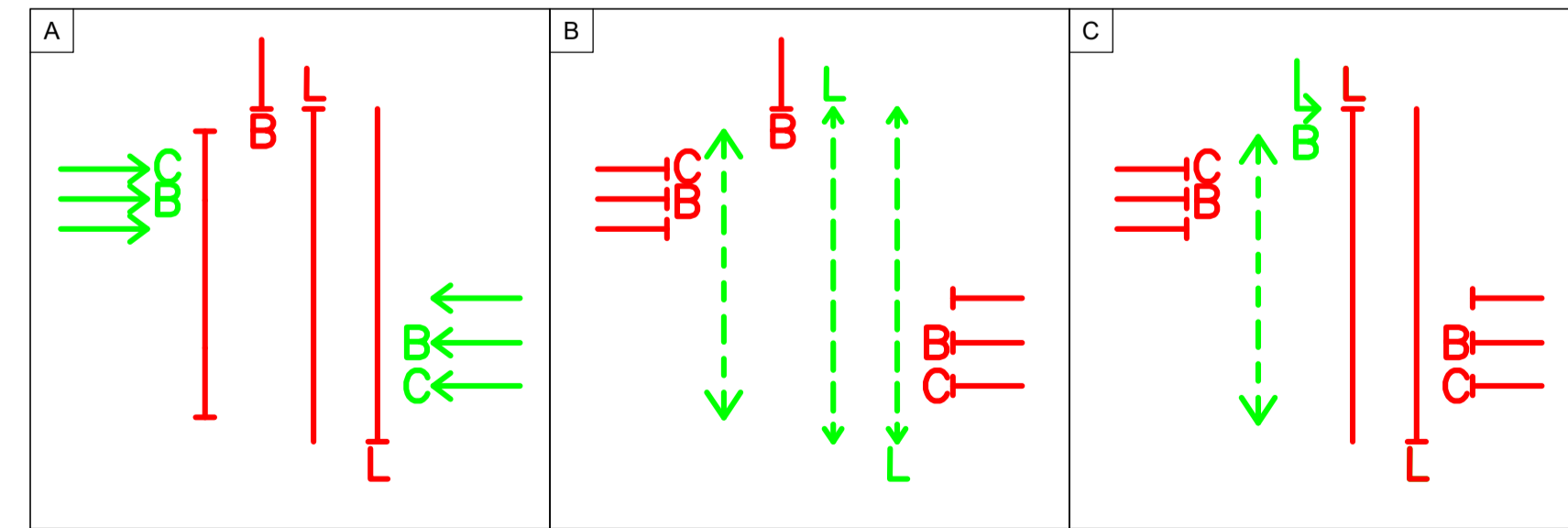


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 001 PRIMARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(E) PRIMARY
 - RTS 002(E) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
 - RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



SCALE 1:250 @ A1; 1:500 @ A3

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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Engineering Designer AECOM M MOTT MACDONALD		
Date 03/10/22	Scale 1:250 @ A1 1:500 @ A3	Drawn E.CHOI	Checked A.T.DALE	Approved C.ACTON
Project Code BCIDA	Originator Code ACM	QMS Code		

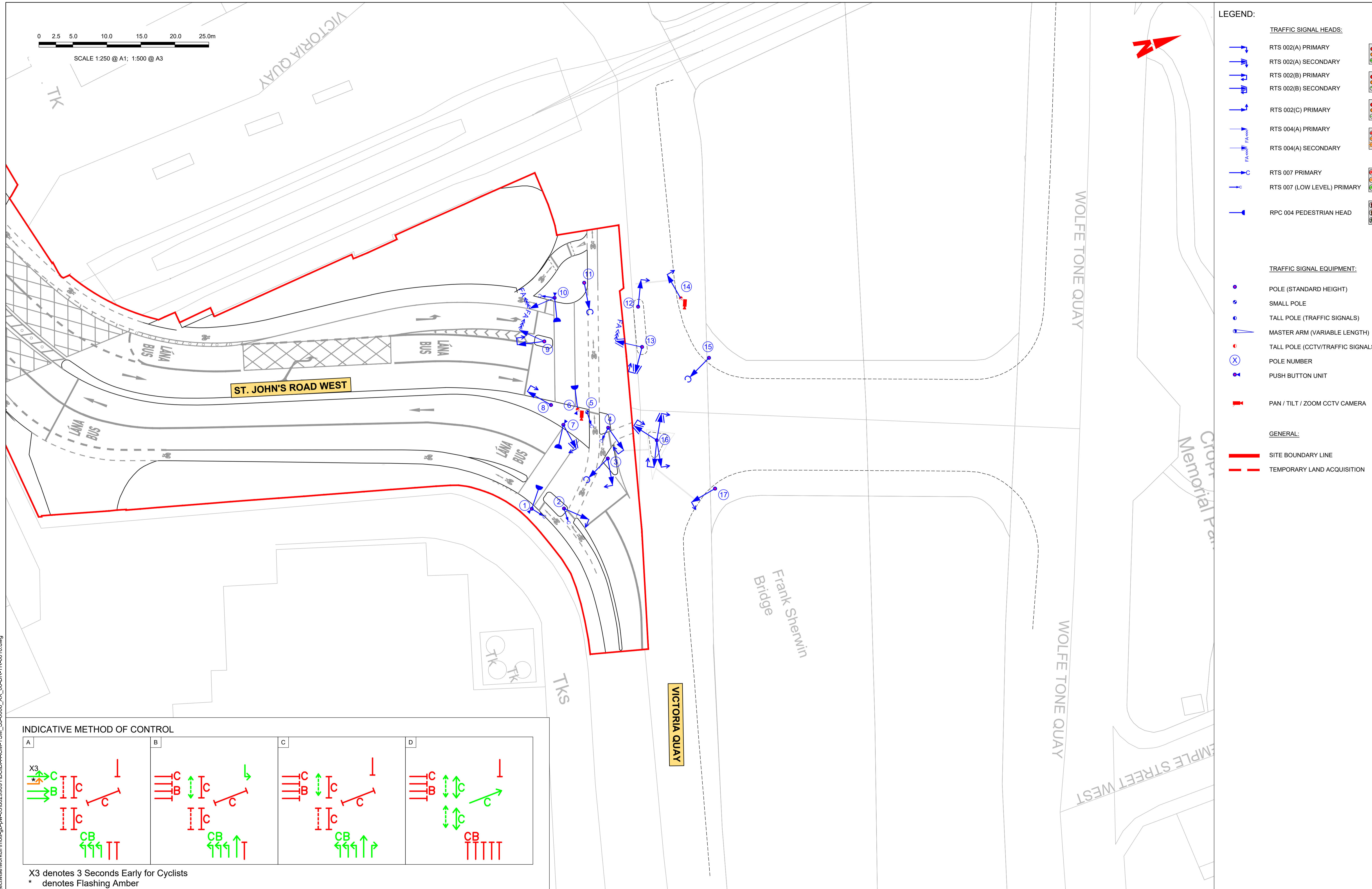
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Drawing Title LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN ST. JOHN'S ROAD WEST / HEUSTON STATION			
Drawing File Name BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0015	Sheet Number 15 of 17	Status A	Rev M01

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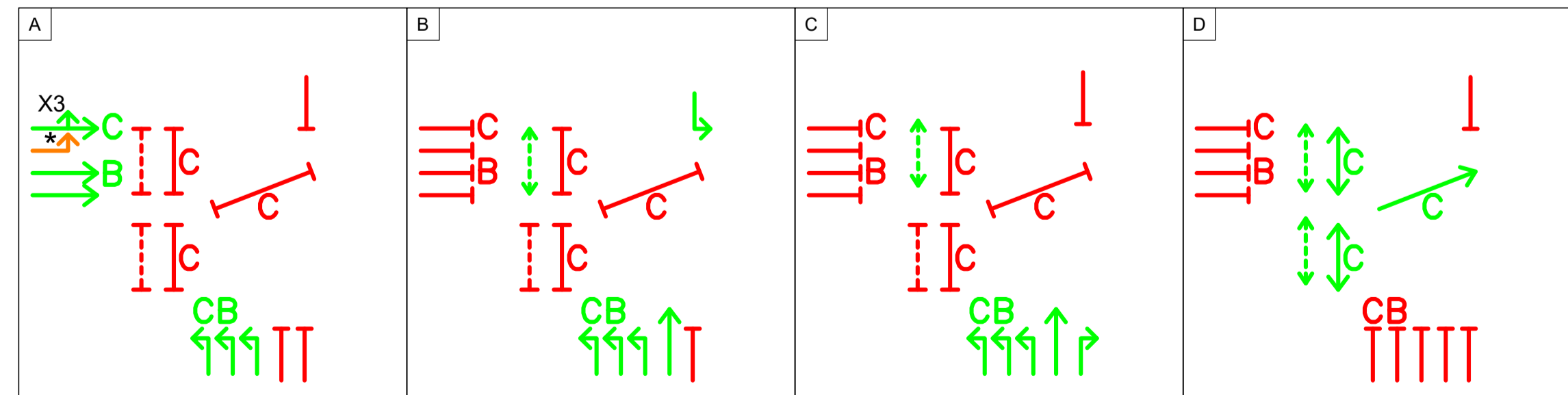
0 2.5 5.0 10.0 15.0 20.0 25.0m

SCALE 1:250 @ A1; 1:500 @ A3



- LEGEND:**
- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 004(A) PRIMARY
 - RTS 004(A) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION

INDICATIVE METHOD OF CONTROL



X3 denotes 3 Seconds Early for Cyclists
 * denotes Flashing Amber

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Rev	Date	Drn	Chk'd	App'd	Description
M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client

Engineering Designer

Programme Title		BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title		LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN ST. JOHN'S ROAD WEST / VICTORIA QUAY		
Drawing File Name	Sheet Number	Status	Rev	
BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0016	16 of 17	A	M01	

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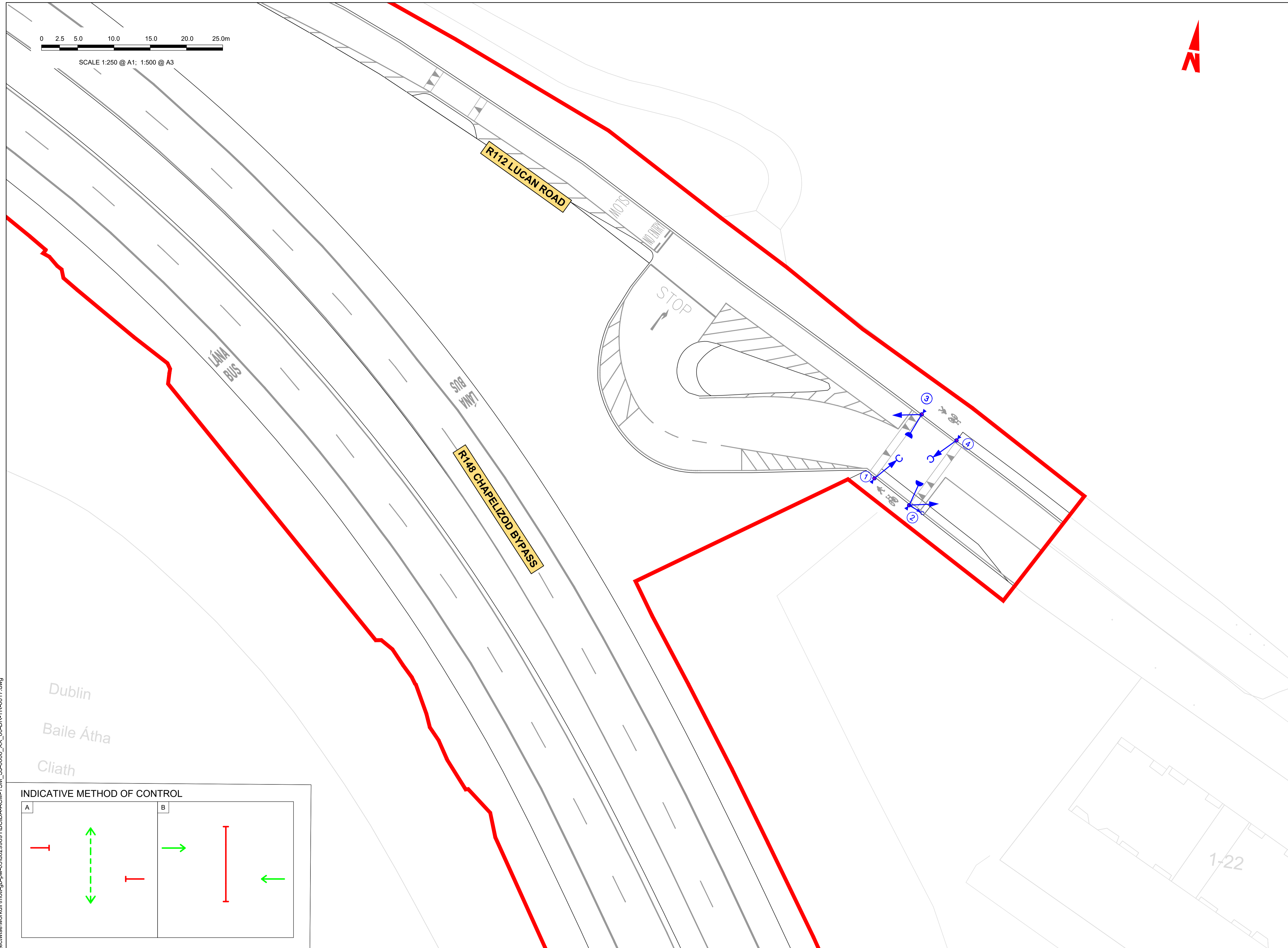
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SCALE 1:250 @ A1; 1:500 @ A3

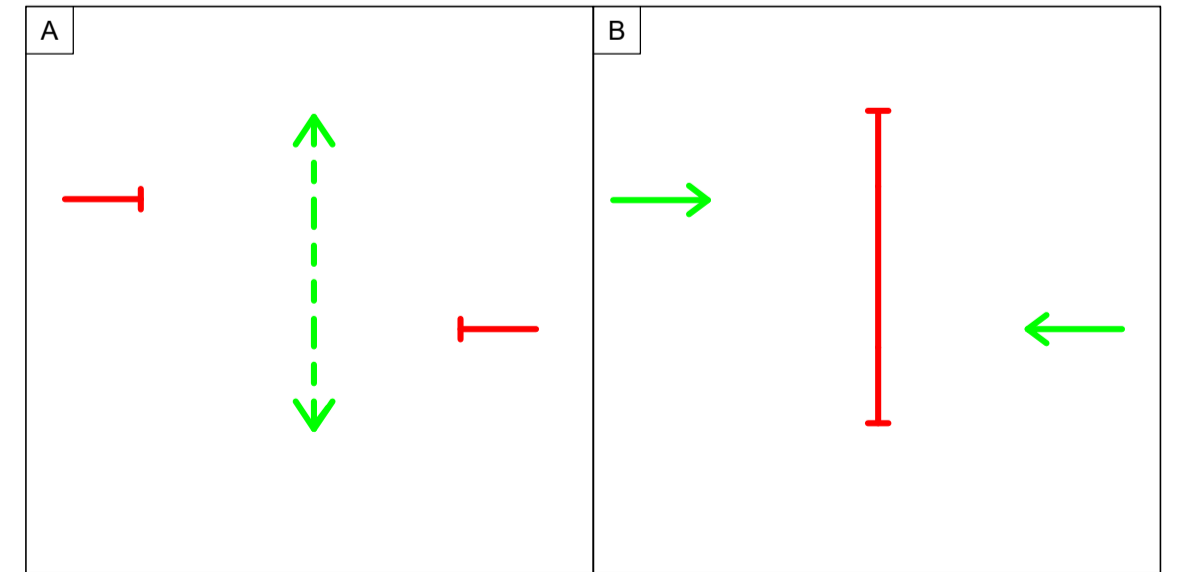


LEGEND:

- TRAFFIC SIGNAL HEADS:**
- RTS 002(A) PRIMARY
 - RTS 002(A) SECONDARY
 - RTS 002(B) PRIMARY
 - RTS 002(B) SECONDARY
 - RTS 002(C) PRIMARY
 - RTS 004(A) PRIMARY
 - RTS 004(A) SECONDARY
 - RTS 007 PRIMARY
 - RTS 007 (LOW LEVEL) PRIMARY
 - RPC 004 PEDESTRIAN HEAD
- TRAFFIC SIGNAL EQUIPMENT:**
- POLE (STANDARD HEIGHT)
 - SMALL POLE
 - TALL POLE (TRAFFIC SIGNALS)
 - MASTER ARM (VARIABLE LENGTH)
 - TALL POLE (CCTV/TRAFFIC SIGNALS)
 - POLE NUMBER
 - PUSH BUTTON UNIT
 - PAN / TILT / ZOOM CCTV CAMERA
- GENERAL:**
- SITE BOUNDARY LINE
 - TEMPORARY LAND ACQUISITION



INDICATIVE METHOD OF CONTROL



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M01	03/10/22	EC	AD	CA	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Engineering Designer: **AECOM** **MOTT MACDONALD**

Date: 03/10/22 | Scale: 1:250 @ A1, 1:500 @ A3 | Drawn: E.CHOI | Checked: A.T.DALE | Approved: C.ACTON

Project Code: BCIDA | Originator Code: ACM | QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: LUCAN TO CITY CENTRE CORE BUS CORRIDOR SCHEME JUNCTION SYSTEMS DESIGN LUCAN ROAD			
Drawing File Name: BCIDA-ACM-TSM_SJ-0006_XX_00-DR-TR-0017	Sheet Number: 17 of 17	Status: A	Rev: M01

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